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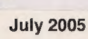


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Amphibia Mundi 1





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Laboratoire des Reptiles et Amphibiens, Muséum national d'Histoire naturelle, 25 rue Cuvier, 75005 Paris, France. – Tel.: (33).(0)1.40.79.34.87. – Fax: (33).(0)1.40.79.34.88. – E-mail: ohler@mnhn.fr.

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Amphibia Mundi. 1.1. An ergotaxonomy of recent amphibians


Alain DUBOIS

Vertébrés: Reptiles et Amphibiens,
USM 0602 Taxonomie and Collections
Département de Systématique and Evolution,
Muséum national d'Histoire naturelle,
25 rue Cuvier, 75005 Paris, France
<adubois@mnhn.fr>

The new publication series *Amphibia Mundi* was presented by DUBOIS (2004*a*). This will be a series of taxonomic catalogues and regular lists of taxonomic novelties concerning the **AMPHIBIA**, that will allow users of taxonomic data (biologists, conservationists, administrators, etc.) to find updated information on the state of the art. Contributors to this ambitious endeavour are welcome and should contact our editorial board, either to write some contributions, or to provide information, or to correct some of the mistakes or omissions that our catalogues will unavoidably contain. This first issue of the series presents a list of taxonomic novelties in recent amphibians, i.e., basically a list of new *nomina* (DUBOIS, 2000) recently proposed for amphibians. Information on these novelties must be provided within the frame of a given taxonomy, and respecting strictly the Rules of the *International Code of Zoological Nomenclature* ("the *Code*"; ANONYMOUS, 1999). These rules, often designated as "Linnaean", have force of law for all zoologists worldwide except those who expressly state that they are following other rules, but then the nomenclature adopted is incompatible with a "Linnaean" one (for details, see DUBOIS, 2005*a*). The taxonomy used as a framework for *Amphibia Mundi* deserves a few comments.

In most zoological groups, and especially in those like the amphibians, which are currently the matter of numerous phylogenetic works often followed by drastic reappraisals of relationships, any given taxonomy is bound to be provisional. This is by no means problematic, as long as one understands the "heuristic value" of taxonomy (e.g. MAYR, 1981). Taxonomies are not only "results" of phylogenetic and taxonomic research, but may serve as *starting points* for further research, as they provide hypotheses on relationships that can be tested. For each zoological group, until we have reached its "final taxonomy", a goal that is legitimate but which will probably remain out of reach for many decades yet, any taxonomic frame must be viewed as a "working taxonomy" (DUBOIS, 1999) or more shortly an *ergotaxonomy* (DUBOIS, 2005*a*).

Taxonomy under the "Linnaean" system consists in two different aspects (e.g., DUBOIS, 2005*a*): establishment or use of *taxa*, and allocation of *ranks* to these taxa. These two aspects are independent and widely different. Establishment or use of taxa is a scientific work that relies on a philosophy of taxonomy: it requires a decision regarding which information is believed to be important or crucial to be carried by taxa and their nomina. Many authors consider that taxonomy should be "phylogenetic", i.e., that taxa should, as far as possible (but see DELORME et al., 2004), be "monophyletic sensu

Hennig" or *holophyletic*. Taxa are hierarchically nested within one another, some being more inclusive than others, and there is a single hierarchy of all living beings. A distinct matter is the ranks that are given to these more or less inclusive taxa. Despite several attempts in this respect, there is at present no homogenizing principle that would allow equivalence of taxa at a given rank in different groups: a family of birds is by no criterion equivalent to a family of frogs (Dubois, 1988). Ranks are arbitrary and subjective, as are the nomina of taxa. However, just like for the latter, this does not mean that they are useless or harmful and that they should be abandoned. Ranks provide a useful, if not indispensable, system of hierarchisation and indexation of taxonomic information (for more details, discussion and references, see Dubois, 2005*a*). A careful use of ranks allows them to play an important rôle in the *robustness* of ergotaxonomies. Such robustness is an appropriate goal for ergotaxonomies, as they are meant to be useful not only to phylogeneticists and taxonomists but also to all other users of zoological nomina.

To avoid unnecessarily frequent changes in ergotaxonomies, especially back and forth movements between two related taxonomic schemes, any ergotaxonomy chosen for a group should be largely conservative. To attain this goal it should preferably afford *primary key ranks* (e.g., ordo or familia; Dubois, 2005*b*), to taxa that are widely recognized as valid, i.e., that are considered by most authors, on the basis of apparently reliable data, as corresponding to well-supported clades. Such taxa and their nomina are likely to remain unchanged for long periods, which will be appreciated by non-taxonomist users. In contrast, taxa that are more controversial, being less robustly supported by the current set of data, should be afforded secondary key ranks (e.g., legio or phalanx) or even *subsidiary ranks* (e.g., superfamilia or subfamilia) (for more details, see Dubois, 2005*b*). This philosophy was followed for the choice of the ergotaxonomy used in this issue of *Amphibia Mundi*.

In the ergotaxonomy presented below, subfamilies and tribes are recognized only when supported by published phylogenetic hypotheses, even when provisional: some of these taxa are likely to change, but this will not affect very much the overall *familial* scheme. At higher levels, although hypotheses about the relationships between the provisional families as recognized here do exist (for recent data, see e.g.: Haas, 2003; Hoegg et al., 2004; Roelants & Bossuyt, 2005; San Mauro et al., 2005), they are not yet consensual and are still likely to be modified in the coming years. Until a robust cladistic hypothesis is widely accepted, it seems better to refrain from recognizing taxa of rank suborder between family and order, especially as this would raise various nomenclatural problems concerning their best designation (for more details, see Dubois, 2004*b*, 2006). At any rate, in the future, the two nomina **Archaeobatrachia** Reig, 1958 and **Neobatrachia** Reig, 1958 must be definitively abandoned, for two distinct but complementary reasons: (1) these nomina are junior homonyms of the nomina **Archaeobatrachi** Sarasin & Sarasin, 1890 and **Neobatrachi** Sarasin & Sarasin, 1890; (2) the nomen **Archaeobatrachia** Reig, 1958 was proposed for a taxon that is clearly paraphyletic (references above). The nomen **Neobatrachi** Sarasin & Sarasin, 1890 is the valid nomen of the subclass of recent amphibians, that has sometimes been called **Lissamphibia** Haeckel, 1866. The latter nomen must also be abandoned, being an invalid junior synonym of **Batrachia** Brongniart, 1800. More details on nomenclature of higher taxa (above superfamily) of **Amphibia** were provided by Dubois (2004*b*).

Rather than recognizing suborders, a better solution for the time being is to recognize higher ranks in the family-series, i.e., superfamilies (ending in *-oidea*) and epifamilies (ending in *-oidia*), as redefined by Dubois (2005*b*): these taxa do not require the use of other nomina than those of families and may be easily abandoned or modified whenever changes are brought to the clado-taxonomic scheme. The cladistic scheme of San Mauro et al. (2005), which largely agrees with other recent studies (Haas, 2003; Roelants & Bossuyt, 2005) was used as the basic framework for recognition of these higher family-series taxa. For fossil groups, Sanchíz (1998) and S. E. Evans et al. (2005) were largely followed. As explained by Dubois (2004*b*, 2005*b*), any higher taxon that only includes one taxon of next lower rank, a situation that is sometimes made necessary for taxonomic balance and homogeneity, bears the same nomen as this lower taxon: e.g., epifamily *Pelobatoidia* and superfamily *Pelobatoidea*,

or superorder † **ALLOCAUDATA** and order † **ALLOCAUDATA**. In such cases, the two ranks are redundant, which causes no nomenclatural problem as long as this does not require formation or recognition of a distinct nomen for each rank (for more details on this controversial question, see DUBOIS, 2005*b*).

The general ergotaxonomic frame used here is conservative at the *family* level: most of the families have been used for more than a century, and correspond to clades that are consensually recognized by most current authors. In most groups, the ergotaxonomy retained is similar to that given in HUTCHINS et al. (2003), but there are a few important differences, largely related to the inclusion of extinct taxa, but also in a few cases to the acknowlegement of recent cladistic data. Unlike the recent lists of FROST (1985), DUELLMAN (1993) and GLAW et al. (1998), *Amphibia Mundi* provides information on fossil taxa. This has some bearing on the taxonomic frame retained. Because many fossil taxa are known only from partial skeletons, their inclusion in the taxonomy of recent amphibians results in some uncertainties. To limit the impact of this problem, a conservative familial ergotaxonomy was adopted here whenever phylogenetic relationships between taxa are still unsolved or controversial. These taxa were maintained in comprehensive families, which may be split later whenever relationships between them are better understood. Not doing so would result in having many genera unallocated to families, which would simply have to be listed as "incertae sedis" at family level. Given these premises, the taxonomic-nomenclatural scheme adopted here for some families needs a short discussion:

(1) For the "discoglossoid" frogs, the taxonomic scheme of SANCHÍZ (1998: 18) was here followed, with a single family including the *ALYTINAE*, *BOMBINATORINAE*, *DISCOGLOSSINAE* and † *GOBIATINAE*, as the relationships between these four groups are still controversial (HAAS, 2003; HOEGG et al., 2004; ROELANTS & BOSSUYT, 2005; SAN MAURO et al., 2005). Additionally, a few problematic fossil genera are simply referred to the family without subfamilial allocation. The family as here recognized will most probably have to be dismantled when the relationships between all its genera are better understood. In the meanwhile, the valid nomen for this family is *BOMBINATORIDAE*, as pointed out long ago (DUBOIS, 1984). As the International Commission of Zoological Nomenclature decided not to use its plenary powers to protect the nomen *DISCOGLOSSIDAE* (see DUBOIS, 1987*d*), the *Code*'s Rule of Priority must be followed. The nomen *BOMBINATORIDAE* has been used repeatedly in the recent years (e.g.: FORD & CANNATELLA, 1993; BIJU & BOSSUYT, 2003; MAGLIA, 2003; CANNATELLA & HILLIS, 2004; ROELANTS & BOSSUYT, 2005), so it cannot be rejected as a nomen oblitum.

(2) The case of the "pelobatoid" frogs is similar. Recent discussions have not yet led to a consensual hypothesis for relationships among groups (GARCÍA-PARÍS et al., 2003; HAAS, 2003; CANNATELLA & HILLIS, 2004; HOEGG et al., 2004; ROELANTS & BOSSUYT, 2005; SAN MAURO et al., 2005). A provisional conservative scheme with a single family *PELOBATIDAE* was adopted here. This family includes four subfamilies (*MEGOPHRYINAE*, *PELOBATINAE*, *PELODYTINAE*, *SCAPHIOPODINAE*) and several fossil genera that cannot be allocated to subfamilies in the present state of knowledge, especially because of apparent convergences between *PELOBATINAE* and *SCAPHIOPODINAE* in their fossorial adaptations.

(3) Two subfamilies are recognized here within the family *PIPIDAE* following B. J. EVANS et al. (2004, 2005). Priority requires that the subfamily including *Xenopus* and *Silurana* be called *DACTYLETHRINAE*, as already pointed out repeatedly (DUBOIS, 1983, 1984, 1985, 1987*b*-*c*).

(4) The epifamily *RANOIDIA* as recognized here corresponds to the "**NEOBATRACHIA**" of several recent authors. This clade is robustly supported by most recent analyses (e.g., HOEGG et al., 2004; VAN DER MEIJDEN et al., 2005). It includes two well-supported large clades, recognized here as the superfamilies *HYLOIDEA* and *RANOIDEA*, and two smaller groups of uncertain affinities (HOEGG et al., 2004), recognized here as the superfamilies *HELEOPHRYNOIDEA* and *SOOGLOSSOIDEA*.

(5) No subfamilies are currently recognized in the family *BUFONIDAE*, although this huge assemblage clearly consists of several subclades, some of which have a limited geographical range whereas others have a much larger distribution. In case future works support the formal recognition of

subfamilies, several family-series nomina are already available and should be used to nominate them rather than coining new nomina (DUBOIS, 1984: 34-35, 1987*a*: 24-29).

(6) The results of DARST & CANNATELLA (2004) and HOEGG et al. (2004) suggest that the subfamily *PSEUDINAE* Fitzinger, 1843 should be considered a synonym of *HYLINAE* Rafinesque, 1815, not a distinct subfamily.

(7) The recent finding (DARST & CANNATELLA, 2004) that the genus *Brachycephalus* Fitzinger, 1826 (including *Psyllophryne* Izecksohn, 1971, according to KAPLAN, 2002) is phylogenetically nested within eleutherodactylines, as usually understood, suggests that the taxon including these genera should be called *BRACHYCEPHALINAE* Günther, 1858 instead of *ELEUTHERODACTYLINAE* Lutz, 1954 (as used e.g. by DUELLMAN, 2003). The genus *Craugastor* Cope, 1862 was recently recognized for a large part of the species usually placed in *Eleutherodactylus* Duméril & Bibron, 1841 (CRAWFORD & SMITH, 2005), and the latter genus might have to be further split.

(8) The family *RANIDAE* as understood here is a very conservative group which corresponds to the epifamily *RANOIDAE* as recognized by VENCES & GLAW (2001) and VAN DER MEIJDEN et al. (2005). This huge assemblage includes a number of taxa whose relationships are not yet clarified and most of which are here provisionally treated as subfamilies, following DUBOIS (2003) but adding the *MANTELLINAE* and *RHACOPHORINAE*. Treating the latter as families makes the *RANIDAE* paraphyletic (VENCES & GLAW, 2001; VAN DER MEIJDEN et al., 2004, 2005). This family will probably have to be split in several families, but these may correspond only in part to the subfamilies as recognized below, so this move appears premature. Changes are here brought to the following taxa:

(a) VAN DER MEIJDEN et al. (2005) recently pointed to the well-supported existence of a previously undetected radiation in African ranid frogs that includes all genera placed by DUBOIS (2003) in the *CACOSTERNINAE* Noble, 1931 but also the genera *Afrana*, *Natalobatrachus* and *Pyxicephalus*. This finding is ackowledged here in placing all these genera, as well as the clearly related *Amietia* and *Aubria*, in the same subfamily, for which the nomen *PYXICEPHALINAE* Bonaparte, 1850 has priority.

(b) The data of VAN DER MEIJDEN et al. (2005) also suggest that the genus *Occidozyga* is a member of the *DICROGLOSSINAE* (as already proposed by DUBOIS, 1987*a*, 1992), and therefore the subfamily *OCCIDOZYGINAE* in DUBOIS (2003) is here downgraded to the rank of a tribe of the latter.

(c) In contrast, the same data also strongly suggest that the genus *Ceratobatrachus* and related genera are not members of the *DICROGLOSSINAE* and that the tribe *CERATOBATRACHINI* of DUBOIS (2003) should be provisionally treated as a subfamily of its own. The valid nomen for this subfamily is *CERATOBATRACHINAE* Boulenger, 1884, not *PLATYMANTINAE* Laurent, 1986, as suggested by VAN DER MEIJDEN et al. (2005). The genus *Batrachylodes*, placed by DUBOIS (1987*a*, 1992, 2003) in the *RANINAE* without robust evidence, is here tentatively referred to this subfamily mostly on the grounds of reproductive mode (direct development) and biogeography.

(d) In the tribe *LIMNONECTINI* of the *DICROGLOSSINAE*, the genus *Liurana* Dubois, 1987 is here considered a strict synonym of *Taylorana* Dubois, 1987 (DUBOIS & OHLER, in preparation). Priority of *Taylorana* over *Liurana* was fixed by the first-reviser action of DUBOIS (1999: 91).

(e) Cladistic relationships within the subfamily *RANINAE* as recognized by DUBOIS (2003) remain very poorly known and will require additional data. This will not be not an easy task because, as already pointed out (DUBOIS, 1981, 1987*a*, 1992, 2003), such a revision to be meaningful cannot be limited to analysis of a subsample of the subfamily, chosen e.g. on geographical grounds (e.g., HILLIS & WILCOX, 2005), but must include representatives of at least all groups and subgroups defined by DUBOIS (1992), and probably more. The tribe *AMOLOPINI* Yang, 1991, recognized by DUBOIS (2003), is not adopted here, as its relationships and contents are not yet fully understood. The genus *Odorrana* Fei, Ye & Huang, 1991 should probably be separated from *Rana* (DUBOIS, 2003), but its relationships with several

other groups (e.g.: *Bamburana* Fei, Ye & Huang, 2005; *Chalcorana* Dubois, 1992; *Eburana* Dubois, 1992; *Nasirana* Dubois, 1992) should first be clarified. Except for the genera *Afrana*, *Amietia* and *Strongylopus*, here placed in the PYXICEPHALINAE for reasons explained above, the genus *Rana* is here kept as a wide and probably polyphyletic assemblage (DUBOIS, 1992) to avoid the creation of paraphyletic genera, which would certainly be the case if e.g. *Amnirana* Dubois, 1992, *Hylarana* Tschudi, 1838, *Pelophylax* Fitzinger, 1843, *Pseudorana* Fei, Ye & Huang, 1991 or *Rugosa* Fei, Ye & Huang, 1991 were raised to generic rank, as proposed by some recent authors (e.g., FEI et al., 1991, 2005; VAN DER MEIJDEN et al., 2005).

(f) On the other hand, within the RANINAE, a new tribe STAUROINI (type-genus *Staurois* Cope, 1865) is here erected for the genus *Staurois* alone. The diagnosis of this tribe is as follows: its members share two important characters with the RHACOPHORINAE, i.e. completely closed ventral cells on digital disks and glandular belly skin (DUBOIS, 1992: 321, 334; BOSSUYT & DUBOIS, 2001: 4), and show other synapomorphies for the RANINAE, such as special courtship display (HARDING, 1982) and unusual keratodont formulae in tadpoles (ALTIG & MCDIARMID, 1999: 331). BOSSUYT & DUBOIS (2001: 4) wrote about the genus *Staurois*: "In fact, but for the absence of intercalary cartilages on digits, there seems to be little reason for not assigning the genus *Staurois* to the Rhacophorinae". According to recent molecular data (ROELANTS et al., 2004), this genus appears as the sister-group of all other RANINAE.

(g) The relationships of the other groups of RANIDAE (as here understood) are not yet clarified (e.g., VAN DER MEIJDEN et al., 2005), so these groups are here provisionally maintained as the subfamilies CONRAUINAE, LANKANECTINAE, MICRIXALINAE, NYCTIBATRACHINAE, PTYCHADENINAE, RANIXALINAE, PETROPEDETINAE and PHRYNOBATRACHINAE. The latter two groups were included by DUBOIS (2003) in a single subfamily PETROPEDETINAE, but this taxon appears paraphyletic according to the data of VAN DER MEIJDEN et al. (2005).

(8) The recent molecular data of DARST & CANNATELLA (2004) and VAN DER MEIJDEN et al. (2004, 2005) support the opinion of LAURENT (1980, 1986) and DUBOIS (1981, 1987*a*, 1992) that the ARTHROLEPTINAE, ASTYLOSTERNINAE and HYPEROLIINAE belong in the same clade, recognized by VENCES & GLAW (2001) and VAN DER MEIJDEN et al. (2005) as the epifamily ARTHROLEPTOIDAE. But these data also suggest that two other groups, traditionally recognized as the MICROHYLIDAE BREVICIPITINAE and the HEMISOTIDAE, are also members of this clade. To account for these findings, these five groups are here recognized as subfamilies of a single, purely African, family, which must bear the nomen BREVICIPITIDAE. This is not because "the oldest available genus name in this clade is *Breviceps* Merrem, 1920" (DARST & CANNATELLA, 2004: 468), as priority among family-series nomina is determined by the dates of the latter nomina, not by those of the nomina of their included genera! The valid nomen in this case is BREVICIPITINA Bonaparte, 1850, which has priority over HEMISIDAE Cope, 1867 and ARTHROLEPTINA Mivart, 1869. In Linnaean nomenclature, BREVICIPITINA, BREVICIPITINAE, BREVICIPITIDAE or BREVICIPITOIDEA are simply different aponyms of the same nomen (see DUBOIS, 2000), which have the same author and date but "simply" different ranks: it is thus incorrect to write that there "seems to be no available superfamily name" for this taxon (DARST & CANNATELLA, 2004: 468). Besides the five subfamilies listed above, a sixth subfamily is here recognized in this family for the LEPTOPELINAE, which according to EMERSON et al. (2000) represent a subclade distinct from the HYPEROLIINAE.

(9) In the urodelan family PLETHODONTIDAE, the traditional taxonomy (WAKE, 2003) has been challenged by recent findings. The molecular phylogenetic data recently provided by CHIPPINDALE et al. (2004) suggest the existence of two major lineages, for which the nomina HEMIDACTYLIINAE and PLETHODONTINAE are available. The first lineage seems to include three subclades, which can be provisionally recognized as tribes, under the nomina BOLITOGLOSSINI, HEMIDACTYLIINI and SPELERPINI. In this group, the genus *Eurycea* Rafinesque, 1822 is here understood as including the taxa traditionally known as the genera *Haideotriton* Carr, 1939, *Typhlomolge* Stejneger, 1896 and *Typhlotriton* Stejneger, 1893, as well as other taxa more recently recognized (HILLIS et al., 2001). The second lineage of

Plethodontidae seems to include two subclades, for which the nomina *Desmognathini* and *Plethodontini* are available. The new data obtained by Mueller et al. (2004), and by Min et al. (2005) on the occasion of the discovery of *Karsenia koreana*, furthermore suggest that the genus *Hydromantes* s.l. (including *Speleomantes*) must be placed in the *Desmognathini*, rather than in the *Bolitoglossini*. The phylogeny and taxonomy of this family are still under intense study and will probably have to be modified in the near future.

(10) In the family *Salamandridae*, on the basis of "molecular studies in progress" ("estudios moleculares en curso"), García-París et al. (2004) recently split the genus *Triturus* in four genera, recognizing the genera *Lissotriton*, *Mesotriton* and *Ommatotriton*. No subfamilies are currently recognized in this family, although Laurent (1986) had recognized three subfamilies, including respectively the genera *Pleurodeles*, *Salamandra* and *Triturus* (and other genera in each). If, following ongoing works, this or a similar arrangement had to be adopted, the valid nomina for these three subfamilies would be, respectively, *Pleurodelinae* Tschudi, 1838, *Salamandrinae* Goldfuss, 1820 and *Molginae* Gray, 1850 (see Dubois, 1985).

(11) Beside the three traditional orders **Anura**, **Urodela** and **Gymnophiona** (for their valid nomina see Dubois, 2004*b*), an order † **Allocaudata** is here tentatively recognized for the family † *Alberpetontidae* in order to account for the results of McGowan & Evans (1995).

The ergotaxonomy used in this first issue of *Amphibia Mundi* will certainly have to be modified in subsequent issues. The list below only mentions the nomina of taxa currently considered valid on the basis of *published* evidence, except in a few cases mentioned above. Hierarchy of taxa is shown by indentation from margin, and ranks of class-series and family-series taxa (Dubois, 2005*a-b*) are written in full. Taxa of same rank subordinate to the same taxon are listed by alphabetical order. Synonyms, subgenera and other infrageneric supraspecific taxa, species and subspecies are not listed. Nomina of entirely fossil taxa are preceded by the sign †.

Classis **Amphibia** De Blainville, 1816
- Subclassis **Neobatrachi** Sarasin & Sarasin, 1890
  - Superordo † **Allocaudata** Fox & Naylor, 1982
    - Ordo † **Allocaudata** Fox & Naylor, 1982
      - Epifamilia † *Albanerpetontoidia* Estes & Hoffstetter, 1976
        - Superfamilia † *Albanerpetontoidea* Estes & Hoffstetter, 1976
          - Familia † *Albanerpetontidae* Estes & Hoffstetter, 1976
            - † *Albanerpeton* Estes & Hoffstetter, 1976
            - † *Anoualerpeton* Gardner, Evans & Sigogneau-Russell, 2003
            - † *Celtedens* McGowan & Evans, 1995
            - † *Nukusurus* Nessov, 1981
  - Superordo **Batrachia** Brongniart, 1800
    - Ordo **Anura** Duméril, 1806
      - Incertae sedis
        - † *Aralobatrachus* Nessov, 1981
        - † *Avitabatrachus* Báez, Trueb & Calvo, 2000
        - † *Batrachulina* Kuhn, 1962
        - † *Comobatrachus* Hecht & Estes, 1960
        - † *Czatkobatrachus* Evans & Borsuk-Białynicka, 1998
        - † *Eobatrachus* Marsh, 1887
        - † *Eorubeta* Hecht, 1960
        - † *Estesina* Roček & Nessov, 1993
        - † *Gobiatoides* Roček & Nessov, 1993

† *Hatzegobatrachus* Venczel & Csiki, 2003
† *Itemirella* Nessov, 1981
† *Liventsovkia* Ratnikov, 1993
† *Lutetiobatrachus* Wuttke, 1988
† *Mesophryne* Gao & Wang, 2001
† *Negatchevkia* Ratnikov, 1993
† *Nezpercius* Blob, Carrano, Rogers, Forster & Espinoza, 2001
† *Novooskolia* Ratnikov, 1993
† *Probatrachus* Peters, 1878
† *Procerobatrachus* Roček & Nessov, 1993
† *Protophrynus* Pomel, 1953
† *Saevesoederberghia* Roček & Nessov, 1993
† *Sunnybatrachus* Evans & McGowan, 2002
† *Thaumastosaurus* De Stefano, 1903
† *Theatonius* Fox, 1976
† *Yizhoubatrachus* Gao & Chen, 2004
Familia † *PROSALIRIDAE* Shubin & Jenkins, 1995
† *Prosalirus* Kuhn, 1964
Familia † *RANAVINAE* Fejérváry, 1920
† *Ranavus* Portis, 1885
Familia † *TREGOBATRACHIDAE* Holman, 1974
† *Tregobatrachus* Holman, 1974
Familia † *VIERAELLIDAE* Kuhn, 1964
† *Vieraella* Reig, 1961
Epifamilia *BOMBINATOROIDIA* Gray, 1825
Superfamilia *BOMBINATOROIDEA* Gray, 1825
Familia *BOMBINATORIDAE* Gray, 1825
Incertae sedis
† *Altanulia* Gubin, 1993
† *Callobatrachus* Wang & Gao, 1997
† *Enneabatrachus* Evans & Milner, 1993
† *Latoglossus* Hossini, 2000
† *Montsechobatrachus* Fejérváry, 1921
† *Opisthocoelellus* Kuhn, 1941
† *Pelophilus* Tschudi, 1838
† *Scotiophryne* Estes, 1969
Subfamilia *ALYTINAE* Fitzinger, 1843
Alytes Wagler, 1829
† *Kizylkuma* Nessov, 1981
Subfamilia *BOMBINATORINAE* Gray, 1825
Barbourula Taylor & Noble, 1924
Bombina Oken, 1816
Subfamilia *DISCOGLOSSINAE* Günther, 1858
Discoglossus Otth, 1837
† *Eodiscoglossus* Villalta, 1956
† *Latonia* Meyer, 1843
† *Paradiscoglossus* Estes & Sanchiz, 1982
† *Paralatonia* Venczel & Csiki, 2003
† *Wealdenbatrachus* Fey, 1988

Subfamilia † *Gobiatinae* Roček & Nessov, 1993
† *Cretasalia* Gubin, 1999
† *Gobiates* Špinar & Tatarinov, 1986
Epifamilia *Leiopelmatoidia* Mivart, 1869
Superfamilia *Leiopelmatoidea* Mivart, 1869
Familia *Ascaphidae* Fejérváry, 1923
Ascaphus Stejneger, 1899
Familia *Leiopelmatidae* Mivart, 1869
Subfamilia *Leiopelmatinae* Mivart, 1869
Leiopelma Fitzinger, 1861
Subfamilia † *Notobatrachinae* Reig, 1957
† *Notobatrachus* Reig, 1956
Epifamilia *Pelobatoidia* Bonaparte, 1850
Superfamilia *Pelobatoidea* Bonaparte, 1850
Familia *Pelobatidae* Bonaparte, 1850
Incertae sedis
† *Liaobatrachus* Ji Shu'an & Ji Quang, 1998
† *Macropelobates* Noble, 1924
† *Uldzinia* Gubin, 1996
Subfamilia *Megophryinae* Bonaparte, 1850
Tribus *Leptobrachiini* Dubois, 1983
Leptobrachella Smith, 1925
Leptobrachium Tschudi, 1838
Leptolalax Dubois, 1980
Oreolalax Myers & Leviton, 1962
Scutiger Theobald, 1868
Tribus *Megophryini* Bonaparte, 1850
Brachytarsophrys Tian & Hu, 1983
Megophrys Kuhl & Van Hasselt, 1822
Ophryophryne Boulenger, 1903
Xenophrys Günther, 1864
Subfamilia *Pelobatinae* Bonaparte, 1850
† *Eopelobates* Parker, 1929
Pelobates Wagler, 1830
Subfamilia *Pelodytinae* Bonaparte, 1850
† *Miopelodytes* Taylor, 1941
Pelodytes Bonaparte, 1838
† *Tephrodytes* Henrici, 1994
Subfamilia *Scaphiopodinae* Cope, 1865
Scaphiopus Holbrook, 1836
Spea Cope, 1866
Epifamilia *Pipoidia* Gray, 1825
Superfamilia *Pipoidea* Gray, 1825
Incertae sedis
† *Aygroua* Jones, Evans & Sigogneau-Russell, 2003
† *Thoraciliacus* Nevo, 1968
Familia † *Palaeobatrachidae* Cope, 1865
† *Albionbatrachus* Meszoely, Špinar & Ford, 1984
† *Messelobatrachus* Wuttke, 1988

† *Palaeobatrachus* Tschudi, 1838
† *Pliobatrachus* Fejérváry, 1917
Familia *PIPIDAE* Gray, 1825
Incertae sedis
† *Cordicephalus* Nevo, 1968
† *Eoxenopoides* Haughton, 1931
† *Llankibatrachus* Báez & Pugener, 2003
† *Shomronella* Estes, Špinar & Nevo, 1978
† *Thoraciliacus* Nevo, 1968
Subfamilia *DACTYLETHRINAE* Hogg, 1838
† *Pachycentrata* Baez & Rage, 2004
† *Saltenia* Reig, 1959
† *Shelania* Casamiquela, 1960
Silurana Gray, 1864
Xenopus Wagler, 1827
Subfamilia *PIPINAE* Gray, 1825
Hymenochirus Boulenger, 1896
Pipa Laurenti, 1768
Pseudhymenochirus Chabanaud, 1920
Familia *RHINOPHRYNIDAE* Günther, 1858
† *Chelomophrynus* Henrici, 1991
† *Eorhinophrynus* Hecht, 1959
† *Rhadinosteus* Henrici, 1998
Rhinophrynus Duméril & Bibron, 1841
Epifamilia *RANOIDIA* Rafinesque-Schmaltz, 1814
Superfamilia *HELEOPHRYNOIDEA* Noble, 1931
Familia *HELEOPHRYNIDAE* Noble, 1931
Heleophryne Sclater, 1899
Superfamilia *HYLOIDEA* Rafinesque, 1815
Familia *ALLOPHRYNIDAE* Goin, Goin & Zug, 1978
Allophryne Gaige, 1926
Familia *BUFONIDAE* Gray, 1825
Adenomus Cope, 1860
Altiphrynoides Dubois, 1987
Andinophryne Hoogmoed, 1985
Ansonia Stoliczka, 1870
Atelophryniscus McCranie, Wilson & Williams, 1989
Atelopus Duméril & Bibron, 1841
Bufo Laurenti, 1768
Bufoides Pillai & Yazdani, 1973
Capensibufo Grandison, 1980
Churamiti Channing & Stanley, 2002
Crepidophryne Cope, 1889
Dendrophryniscus Jiménez de la Espada, 1871
Didynamipus Andersson, 1903
Frostius Cannatella, 1986
Laurentophryne Tihen, 1960
Leptophryne Fitzinger, 1843
Melanophryniscus Gallardo, 1961
Mertensophryne Tihen, 1960

Metaphrynscus Señaris, Ayarzagüena & Gorzula, 1994
Nectophryne Buchholz & Peters, 1875
Nectophrynoides Noble, 1926
Nimbaphrynoides Dubois, 1987
Oreophrynella Boulenger, 1895
Osornophryne Ruíz-Carranza & Hernández-Camacho, 1976
Parapelophryne Fei, Ye & Jiang, 2003
Pedostibes Gunther, 1876
Pelophryne Barbour, 1938
Phrynoidis Fitzinger, 1843
Pseudobufo Tschudi, 1838
Rhamphophryne Trueb, 1971
Schismaderma Smith, 1849
Spinophrynoides Dubois, 1987
Stephopaedes Channing, 1978
Truebella Graybeal & Cannatella, 1995
Werneria Poche, 1903
Wolterstorffina Mertens, 1939

Familia *Centrolenidae* Taylor, 1951
Centrolene Jiménez de la Espada, 1872
Cochranella Taylor, 1951
Hyalinobatrachium Ruiz-Carranza & Lynch, 1991

Familia *Dendrobatidae* Cope, 1865 (1850)
Allobates Zimmermann & Zimmermann, 1988
Aromobates Myers, Paolillo & Daly, 1991
Colostethus Cope, 1866
Cryptophyllobates Lötters, Jungfer & Widmer, 2000
Dendrobates Wagler, 1830
Epipedobates Myers, 1987
Mannophryne LaMarca, 1992
Nephelobates La Marca, 1994
Phyllobates Duméril & Bibron, 1841

Familia *Hylidae* Rafinesque, 1815
Subfamilia *Hemiphractinae* Peters, 1862
Cryptobatrachus Ruthven, 1916
Flectonotus Miranda-Ribeiro, 1920
Gastrotheca Fitzinger, 1843
Hemiphractus Wagler, 1828
Stefania Rivero, 1968

Subfamilia *Hylinae* Rafinesque, 1815
Acris Dumeril & Bibron, 1841
Anotheca Smith, 1939
Aparasphenodon Miranda-Ribeiro, 1920
Aplastodiscus Lutz, 1950
Argenteohyla Trueb, 1970
Corythomantis Boulenger, 1896
Duellmanohyla Campbell & Smith, 1992
Hyla Laurenti, 1768
Lysapsus Cope, 1862
Nyctimantis Boulenger, 1882

Osteocephalus Steindachner, 1862
Osteopilus Fitzinger, 1843
Phrynohyas Fitzinger, 1843
Phyllodytes Wagler, 1830
Plectrohyla Brocchi, 1877
† *Proacris* Holman, 1961
Pseudacris Fitzinger, 1843
Pseudis Wagler, 1830
Pternohyla Boulenger, 1882
Ptychohyla Taylor, 1944
Scarthyla Duellman & De Sá, 1988
Scinax Wagler, 1830
Smilisca Cope, 1865
Sphaenorhynchus Tschudi, 1838
Tepuihyla Ayarazagüena, Señaris & Gorzula, 1992
Trachycephalus Tschudi, 1838
Triprion Cope, 1866
Xenohyla Izecksohn, 1998

Subfamilia *PELODRYADINAE* Günther, 1858
Cyclorana Steindachner, 1867
† *Etnabatrachus* Hochnull, 2003
Litoria Tschudi, 1838
Nyctimystes Stejneger, 1916
Pelodryas Gunther, 1859

Subfamilia *PHYLLOMEDUSINAE* Günther, 1858
Agalychnis Cope, 1864
Hylomantis Peters, 1872
Pachymedusa Duellman, 1968
Phasmahyla Cruz, 1991
Phrynomedusa Miranda-Ribeiro, 1923
Phyllomedusa Wagler, 1830

Familia *LEPTODACTYLIDAE* Werner, 1896 (1838)

Incertae sedis
† *Estesiella* Báez, 1995

Subfamilia *BRACHYCEPHALINAE* Günther, 1858
Adelophryne Hoogmoed & Lescure, 1984
Atopophrynus Lynch & Ruiz-Carranza, 1982
Barycholos Heyer, 1969
Brachycephalus Fitzinger, 1826
Craugastor Cope, 1862
Dischidodactylus Lynch, 1979
Eleutherodactylus Dumeril & Bibron, 1841
Euparkerella Griffiths, 1959
Geobatrachus Ruthven, 1915
Holoaden Miranda-Ribeiro, 1920
Ischnocnema Reinhardt & Lütken, 1862
Phrynopus Peters, 1874
Phyllonastes Heyer, 1977
Phyzelaphryne Heyer, 1977

Subfamilia *Ceratophryinae* Tschudi, 1838
  † *Baurubatrachus* Báez & Peri, 1990
  Ceratophrys Wied-Neuwied, 1824
  Chacophrys Reig & Limeses, 1963
  Lepidobatrachus Budgett, 1899
  † *Wawelia* Casamiquela, 1959
Subfamilia *Cycloramphinae* Bonaparte, 1850
  Crossodactylodes Cochran, 1938
  Cycloramphus Tschudi, 1838
  Paratelmatobius Lutz & Carvalho, 1958
  Rupirana Heyer, 1999
  Scythrophrys Lynch, 1971
  Thoropa Cope, 1865
  Zachaenus Cope, 1866
Subfamilia *Hylodinae* Günther, 1858
  Crossodactylus Duméril & Bibron, 1841
  Hylodes Fitzinger, 1826
  Megaelosia Miranda-Ribeiro, 1923
Subfamilia *Leptodactylinae* Werner, 1896 (1838)
  Adenomera Steindachner, 1867
  Edalorhina Jiménez de la Espada, 1870
  Hydrolaetare Gallardo, 1963
  Leptodactylus Fitzinger, 1826
  Limnomedusa Fitzinger, 1843
  Lithodytes Fitzinger, 1843
  Physalaemus Fitzinger, 1826
  Pleurodema Tschudi, 1838
  Pseudopaludicola Miranda-Ribeiro, 1926
  Vanzolinius Heyer, 1974
Subfamilia *Odontophryninae* Lynch, 1969
  Macrogenioglottus Carvalho, 1946
  Odontophrynus Reinhardt & Lütken, 1862
  Proceratophrys Miranda-Ribeiro, 1920
Subfamilia *Telmatobiinae* Fitzinger, 1843
  Alsodes Bell, 1843
  Atelognathus Lynch, 1978
  Batrachophrynus Peters, 1873
  Batrachyla Bell, 1843
  Caudiverbera Laurenti, 1768
  Eupsophus Fitzinger, 1843
  Hylorina Bell, 1843
  Insuetophrynus Barrio, 1970
  † *Neoprocoela* Schaeffer, 1949
  Somuncuria Lynch, 1978
  Telmatobius Wiegmann, 1835
  Telmatobufo Schmidt, 1952
Familia *Myobatrachidae* Schlegel, 1850
Incertae sedis
  † *Indobatrachus* Noble, 1930

Subfamilia *LIMNODYNASTINAE* Lynch, 1969
Adelotus Ogilby, 1907
Heleioporus Gray, 1841
Kyarranus Moore, 1958
Lechriodus Boulenger, 1882
Limnodynastes Fitzinger, 1843
Mixophyes Günther, 1864
Neobatrachus Peters, 1863
Notaden Gunther, 1873
Philoria Spencer, 1901
Subfamilia *MYOBATRACHINAE* Schlegel, 1850
Arenophryne Tyler, 1976
Assa Tyler, 1972
Bryobatrachus Rounsevell, Ziegeler, Brown, Davies & Littlejohn, 1994
Crinia Tschudi, 1838
Geocrinia Blake, 1973
Metacrinia Parker, 1940
Myobatrachus Schlegel, 1850
Paracrinia Heyer & Liem, 1976
Pseudophryne Fitzinger, 1843
Rheobatrachus Liem, 1973
Spicospina Roberts, Horwitz, Wardell-Johnson, Maxson & Mahony, 1997
Taudactylus Straughan & Lee, 1966
Uperoleia Gray, 1841
Familia *RHINODERMATIDAE* Bonaparte, 1850
Rhinoderma Duméril & Bibron, 1841
Superfamilia *RANOIDEA* Rafinesque-Schmaltz, 1814
Incertae sedis
† *Ranomorphus* Ratnikov, 1993
Familia *BREVICIPITIDAE* Bonaparte, 1850
Subfamilia *ARTHROLEPTINAE* Mivart, 1869
Arthroleptis Smith, 1849
Cardioglossa Boulenger, 1900
Subfamilia *ASTYLOSTERNINAE* Noble, 1927
Astylosternus Werner, 1898
Leptodactylodon Andersson, 1903
Nyctibates Boulenger, 1904
Scotobleps Boulenger, 1900
Trichobatrachus Boulenger, 1900
Subfamilia *BREVICIPITINAE* Bonaparte, 1850
Balebreviceps Largen & Drewes, 1989
Breviceps Merrem, 1820
Callulina Nieden, 1910
Probreviceps Parker, 1931
Spelaeophryne Ahl, 1924
Subfamilia *HEMISOTINAE* Cope, 1867
Hemisus Günther, 1859
Subfamilia *HYPEROLIINAE* Laurent, 1943
Tribus *HYPEROLIINI* Laurent, 1943
Acanthixalus Laurent, 1944

Afrixalus Laurent, 1944
Alexteroon Perret, 1988
Arlequinus Perret, 1988
Callixalus Laurent, 1950
Chlorolius Perret, 1988
Chrysobatrachus Laurent, 1951
Cryptothylax Laurent & Combaz, 1950
Heterixalus Laurent, 1944
Hyperolius Rapp, 1842
Kassinula Laurent, 1940
Tachycnemis Fitzinger, 1843
Tribus *KASSININI* Laurent, 1972
Kassina Girard, 1853
Opisthothylax Perret, 1966
Paracassina Peracca, 1907
Phlyctimantis Laurent & Combaz, 1950
Semnodactylus Hoffman, 1939
Subfamilia *LEPTOPELINAE* Laurent, 1972
Leptopelis Gunther, 1859 1869
Familia *MICROHYLIDAE* Gunther, 1858 (1843)
Subfamilia *ASTEROPHRYINAE* Günther, 1858
Incertae sedis
† *Australobatrachus* Tyler, 1976
Tribus *ASTEROPHRYINI* Günther, 1858
Asterophrys Tschudi, 1838
Hylophorbus Macleay, 1878
Mantophryne Boulenger, 1897
Pherohapsis Zweifel, 1972
Tribus *BARYGENYINI* Burton, 1986
Barygenys Parker, 1936
Tribus *CALLULOPINI* Dubois, 1988
Callulops Boulenger, 1888
Tribus *XENORHININI* Mivart, 1869
Xenobatrachus Peters & Doria, 1878
Xenorhina Peters, 1863
Subfamilia *CALLUELLINAE* Fei, Ye & Jiang, 2005
Calluella Stoliczka, 1872
Subfamilia *COPHYLINAE* Cope, 1889
Anodonthyla Müller, 1892
Cophyla Boettger, 1880
Madecassophryne Guibé, 1974
Platypelis Boulenger, 1882
Plethodontohyla Boulenger, 1882
Rhombophryne Boettger, 1880
Stumpffia Boettger, 1881
Subfamilia *DYSCOPHINAE* Boulenger, 1882
Dyscophus Grandidier, 1872
Subfamilia *GENYOPHRYNINAE* Boulenger, 1890
Albericus Burton & Zweifel, 1995

Aphantophryne Fry, 1917
Austrochaperina Fry, 1912
Choerophryne Van Kampen, 1915
Cophixalus Boettger, 1892
Copiula Mehelÿ, 1901
Genyophryne Boulenger, 1890
Liophryne Boulenger, 1897
Oreophryne Boettger, 1895
Oxydactyla Van Kampen, 1913
Sphenophryne Peters & Doria, 1878
Subfamilia *HOPLOPHRYNINAE* Noble, 1931
Hoplophryne Barbour & Loveridge, 1928
Parhoplophryne Barbour & Loveridge, 1928
Subfamilia *MICROHYLINAE* Günther, 1858 (1843)
Tribus *GASTROPHRYNINI* Fitzinger, 1843
Adelastes Zweifel, 1986
Altigius Wild, 1995
Arcovomer Carvalho, 1954
Chiasmocleis Mehelÿ, 1904
Ctenophryne Mocquard, 1904
Dasypops Miranda-Ribeiro, 1924
Dermatonotus Méhely, 1904
Elachistocleis Parker, 1927
Gastrophryne Fitzinger, 1843
Hamptophryne Carvalho, 1954
Hyophryne Carvalho, 1954
Hypopachus Keferstein, 1867
Myersiella Carvalho, 1954
Nelsonophryne Frost, 1987
Otophryne Boulenger, 1900
Stereocyclops Cope, 1870
Synapturanus Carvalho, 1954
Syncope Walker, 1973
Tribus *MICROHYLINI* Günther, 1858 (1843)
Chaperina Mocquard, 1892
Gastrophrynoides Noble, 1926
Glyphoglossus Gunther, 1868
Kalophrynus Tschudi, 1838
Kaloula Gray, 1831
Melanobatrachus Beddome, 1878
Metaphrynella Parker, 1934
Microhyla Tschudi, 1838
Micryletta Dubois, 1987
Phrynella Boulenger, 1887
Ramanella Rao & Ramanna, 1925
Uperodon Dumeril & Bibron, 1841
Subfamilia *PHRYNOMERINAE* Noble, 1931
Phrynomantis Peters, 1867
Subfamilia *SCAPHIOPHRYNINAE* Laurent, 1946
Paradoxophyla Blommers-Schlösser & Blanc, 1991
Scaphiophryne Boulenger, 1882

Familia *Ranidae* Rafinesque-Schmaltz, 1814
Subfamilia *Ceratobatrachinae* Boulenger, 1884
Batrachylodes Boulenger, 1887
Ceratobatrachus Boulenger, 1884
Discodeles Boulenger, 1918
Ingerana Dubois, 1987
Palmatorappia Ahl, 1927
Platymantis Gunther, 1859
Subfamilia *Conrauinae* Dubois, 1992
Conraua Nieden, 1908
Subfamilia *Dicroglossinae* Anderson, 1871
Tribus *Dicroglossini* Anderson, 1871
Euphlyctis Fitzinger, 1843
Fejervarya Bolkay, 1915
Hoplobatrachus Peters, 1863
Minervarya Dubois, Ohler & Biju, 2001
Nannophrys Günther, 1869
Sphaerotheca Günther, 1859
Tribus *Limnonectini* Dubois, 1992
Annandia Dubois, 1992
Elachyglossa Andersson, 1916
Limnonectes Fitzinger, 1843
Taylorana Dubois, 1987
Tribus *Occidozygini* Fei, Ye & Huang, 1991
Occidozyga Kuhl & Van Hasselt, 1822
Phrynoglossus Peters, 1867
Tribus *Paini* Dubois, 1992
Chaparana Bourret, 1939
Nanorana Günther, 1896
Quasipaa Dubois, 1992
Subfamilia *Lankanectinae* Dubois & Ohler, 2001
Lankanectes Dubois & Ohler, 2001
Subfamilia *Mantellinae* Laurent, 1946
Tribus *Boophini* Vences & Glaw, 2001
Boophis Tschudi, 1838
Tribus *Laliostomini* Vences & Glaw, 2001
Aglyptodactylus Boulenger, 1919
Laliostoma Glaw, Vences & Bohme, 1998
Tribus *Mantellini* Laurent, 1946
Mantella Boulenger, 1882
Mantidactylus Boulenger, 1895
Subfamilia *Micrixalinae* Dubois, Ohler & Biju, 2001
Micrixalus Boulenger, 1888
Subfamilia *Nyctibatrachinae* Blommers-Schlösser, 1993
Nyctibatrachus Boulenger, 1882
Subfamilia *Petropedetinae* Noble, 1931
Arthroleptides Nieden, 1910
Petropedetes Reichenow, 1874
Subfamilia *Phrynobatrachinae* Laurent, 1941
Dimorphognathus Boulenger, 1906

Ericabatrachus Largen, 1991
Phrynobatrachus Günther, 1862
Phrynodon Parker, 1935
Subfamilia *PTYCHADENINAE* Dubois, 1987
Hildebrandtia Nieden, 1907
Lanzarana Clarke, 1983
Ptychadena Boulenger, 1917
Subfamilia *PYXICEPHALINAE* Bonaparte, 1850
Afrana Dubois, 1992
Amietia Dubois, 1987
Anhydrophryne Hewitt, 1919
Aubria Boulenger, 1917
Arthroleptella Hewitt, 1926
Cacosternum Boulenger, 1887
Microbatrachella Hewitt, 1926
Natalobatrachus Hewitt & Methuen, 1913
Nothophryne Poynton, 1963
Poyntonia Channing & Boycott, 1989
Pyxicephalus Tschudi, 1838
Strongylopus Tschudi, 1838
Tomopterna Duméril & Bibron, 1841
Subfamilia *RANINAE* Rafinesque-Schmaltz, 1814
Tribus *RANINI* Rafinesque-Schmaltz, 1814
Amolops Cope, 1865
Pseudoamolops Fei, Ye & Jiang, 2000
Rana Linnaeus, 1758
Tribus *STAUROINI* nov.
Staurois Cope, 1865
Subfamilia *RANIXALINAE* Dubois, 1987
Indirana Laurent, 1986
Subfamilia *RHACOPHORINAE* Hoffman, 1932 (1858)
Incertae sedis
Dendrobatorana Ahl, 1927
Tribus *BUERGERIINI* Channing, 1989
Buergeria Tschudi, 1838
Tribus *PHILAUTINI* Dubois, 1981
Aquixalus Delorme, Dubois, Grosjean & Ohler, 2005
Kurixalus Fei, Ye & Dubois, 1999
Nyctixalus Boulenger, 1882
Philautus Gistel, 1848
Theloderma Tschudi, 1838
Tribus *RHACOPHORINI* Hoffman, 1932 (1858)
Chirixalus Boulenger, 1893
Chiromantis Peters, 1855
Polypedates Tschudi, 1838
Rhacophorus Kuhl & Van Hasselt, 1822
Superfamilia *SOOGLOSSOIDEA* Noble, 1931
Familia *NASIKABATRACHIDAE* Biju & Bossuyt, 2003
Nasikabatrachus Biju & Bossuyt, 2003

Familia *Sooglossidae* Noble, 1931
Nesomantis Boulenger, 1909
Sooglossus Boulenger, 1906
Epifamilia † *Triadobatrachoidia* Kuhn, 1962
Superfamilia † *Triadobatrachoidea* Kuhn, 1962
Familia † *Triadobatrachidae* Kuhn, 1962
† *Triadobatrachus* Kuhn, 1962
Ordo **Urodela** Duméril, 1806
Incertae sedis
† *Apricosiren* Evans & McGowan, 2002
† *Bishara* Nessov, 1997
† *Bissektia* Nessov, 1981
† *Comonecturoides* Hecht & Estes, 1960
† *Galverpeton* Estes & Sanchíz, 1982
† *Hylaeobatrachus* Dollo, 1884
† *Jeholotriton* Wang, 2000
† *Kiyatriton* Averianov & Voronkevich, 2002
† *Laccotriton* Gao et al., 1998
† *Marmorerpeton* Evans, Milner & Mussett, 1988
† *Ramonellus* Nevo & Estes, 1969
† *Sinerpeton* Gao & Shubin, 2001
Familia † *Batrachosauroididae* Auffenberg, 1958
† *Batrachosauroides* Taylor & Hesse, 1943
† *Mynbulakia* Nessov, 1981
† *Opisthotriton* Auffenberg, 1961
† *Palaeoproteus* Herre, 1935
† *Parrisia* Denton & O'Neill, 1998
† *Peratosauroides* Naylor, 1981
† *Prodesmodon* Estes, 1964
Familia † *Prosirenidae* Estes, 1969
† *Prosiren* Goin & Auffenberg, 1958
Familia † *Scapherpetontidae* Auffenberg & Goin, 1959
† *Eoscapherpeton* Nessov, 1981
† *Horezmia* Nessov, 1981
† *Lisserpeton* Estes, 1965
† *Piceoerpeton* Meszoely, 1967
† *Scapherpeton* Cope, 1877
Epifamilia *Cryptobranchoidia* Fitzinger, 1826
Superfamilia *Cryptobranchoidea* Fitzinger, 1826
Familia *Cryptobranchidae* Fitzinger, 1826
Andrias Tschudi, 1837
† *Aviturus* Gubin, 1991
† *Chunerpeton* Gao & Shubin, 2003
Cryptobranchus Leuckart, 1821
† *Ulanurus* Gubin, 1991
Familia *Hynobiidae* Cope, 1859 (1856)
Subfamilia *Hynobiinae* Cope, 1859 (1856)
Batrachuperus Boulenger, 1878
Hynobius Tschudi, 1838
† *Liaoxitriton* Dong & Wang, 1998

Liua Zhao & Hu, 1983
Onychodactylus Tschudi, 1838
Pachyhynobius Fei, Qu & Wu, 1983
† *Parahynobius* Venczel, 1999
Pseudohynobius Fei & Ye, 1983
Ranodon Kessler, 1866
Salamandrella Dybowski, 1870
Subfamilia *PROTOHYNOBIINAE* Fei & Ye, 2000
Protohynobius Fei & Ye, 2000
Epifamilia † *KARAUROIDIA* Ivachnenko, 1978
Superfamilia † *KARAUROIDEA* Ivachnenko, 1978
Familia † *KARAURIDAE* Ivachnenko, 1978
† *Karaurus* Ivachnenko, 1978
† *Kokartus* Nessov, 1981
Epifamilia *SALAMANDROIDIA* Goldfuss, 1820
Incertae sedis
† *Iridotriton* Evans, Lally, Chure, Elder & Maisano, 2005
† *Valdotriton* Evans & Milner, 1996
Superfamilia *AMBYSTOMATOIDEA* Gray, 1850
Familia *AMBYSTOMATIDAE* Gray, 1850
Ambystoma Tschudi, 1838
† *Amphitriton* Rogers, 1976
Familia *DICAMPTODONTIDAE* Tihen, 1958
† *Ambystomichnus* Peabody, 1954
† *Bargmannia* Herre, 1955
† *Chrysotriton* Estes, 1981
Dicamptodon Strauch, 1870
† *Geyeriella* Herre, 1950
† *Wolterstorffiella* Herre, 1950
Superfamilia *AMPHIUMOIDEA* Gray, 1825
Familia *AMPHIUMIDAE* Gray, 1825
Amphiuma Garden, 1821
† *Paleoamphiuma* Rieppel & Grande, 1998
† *Proamphiuma* Estes, 1969
Familia *PLETHODONTIDAE* Gray, 1850
Subfamilia *HEMIDACTYLIINAE* Hallowell, 1856 (1850)
Tribus *BOLITOGLOSSINI* Hallowell, 1856
Batrachoseps Bonaparte, 1841
Bolitoglossa Duméril, Bibron & Duméril, 1854
Bradytriton Wake & Elias, 1983
Chiropterotriton Taylor, 1944
Cryptotriton García-Paris & Wake, 2000
Dendrotriton Wake & Elias, 1983
Ixalotriton Wake & Johnson, 1989
Lineatriton Tanner, 1950
Nototriton Wake & Elias, 1983
Nyctanolis Elias & Wake, 1983
Oedipina Keferstein, 1868
Parvimolge Taylor, 1944

Pseudoeurycea Taylor, 1944
Thorius Cope, 1869
Tribus *Hemidactyliini* Hallowell, 1856 (1850)
Hemidactylium Tschudi, 1838
Tribus *Spelerpini* Cope, 1859
Eurycea Rafinesque, 1822
Gyrinophilus Cope, 1869
Pseudotriton Tschudi, 1838
Stereochilus Cope, 1869
Subfamilia *Plethodontinae* Gray, 1850
Tribus *Desmognathini* Gray, 1850
Aneides Baird, 1849
Desmognathus Baird, 1850
Ensatina Gray, 1850
Hydromantes Gistel, 1848
Karsenia Min, Yang, Bonett, Vieites, Brandon & Wake, 2005
Leurognathus Moore, 1899
Phaeognathus Highton, 1961
Tribus *Plethodontini* Gray, 1850
Plethodon Tschudi, 1838
Superfamilia *Proteoidea* Gray, 1825
Familia *Proteidae* Gray, 1825
† *Mioproteus* Estes & Darevsky, 1978
Necturus Rafinesque, 1819
† *Orthophyia* Meyer, 1845
Proteus Laurenti, 1768
Superfamilia *Rhyacotritonoidea* Tihen, 1958
Familia *Rhyacotritonidae* Tihen, 1958
Rhyacotriton Dunn, 1920
Superfamilia *Salamandroidea* Goldfuss, 1820
Familia *Salamandridae* Goldfuss, 1820
† *Archaeotriton* Meyer, 1860
† *Brachycormus* Meyer, 1860
† *Chelotriton* Pomel, 1853
Chioglossa Bocage, 1864
Cynops Tschudi, 1838
Echinotriton Nussbaum & Brodie, 1982
Euproctus Gené, 1838
† *Koalliella* Herre, 1950
Lissotriton Bell, 1839
Lyciasalamandra Veith & Steinfartz, 2004
† *Megalotriton* Zittel, 1888
Mertensiella Wolterstorff, 1925
Mesotriton Bolkay, 1927
Neurergus Cope, 1862
Notophthalmus Rafinesque, 1820
† *Oligosemia* Navas, 1922
Ommatotriton Gray, 1850
Pachytriton Boulenger, 1878
† *Palaeopleurodeles* Herre, 1941

Paramesotriton Chang, 1935
Pleurodeles Michahelles, 1830
† *Procynops* Young, 1965
Salamandra Laurenti, 1768
Salamandrina Fitzinger, 1826
Taricha Gray, 1850
Triturus Rafinesque, 1815
Tylototriton Anderson, 1871
Epifamilia *SIRENOIDIA* Gray, 1825
Superfamilia *SIRENOIDEA* Gray, 1825
Familia *SIRENIDAE* Gray, 1825
† *Habrosaurus* Gilmore, 1928
† *Kababisha* Evans, Milner & Werner, 1996
† *Noterpeton* Rage, Marshall & Gayet, 1993
Pseudobranchus Gray, 1825
Siren Österdam, 1766
Superordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814
Ordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814
Incertae sedis
† *Rubricacaecilia* Evans & Sigogneau-Russell, 2001
Epifamilia *CAECILIOIDIA* Rafinesque-Schmaltz, 1814
Superfamilia *CAECILIOIDEA* Rafinesque-Schmaltz, 1814
Familia *CAECILIIDAE* Rafinesque-Schmaltz, 1814
† *Apodops* Estes & Wake, 1972
Boulengerula Tornier, 1897
Brasilotyphlus Taylor, 1968
Caecilia Linnaeus, 1758
Dermophis Peters, 1879
Gegeneophis Peters, 1879
Geotrypetes Peters, 1880
Grandisonia Taylor, 1968
Gymnopis Peters, 1874
Herpele Peters, 1879
Hypogeophis Peters, 1879
Idiocranium Parker, 1936
Indotyphlus Taylor, 1960
Luetkenotyphlus Taylor, 1968
Microcaecilia Taylor, 1968
Mimosiphonops Taylor, 1968
Oscaecilia Taylor, 1968
Parvicaecilia Taylor, 1968
Praslinia Boulenger, 1909
Schistometopum Parker, 1941
Siphonops Wagler, 1830
Sylvacaecilia Wake, 1987
Familia *ICHTHYOPHIIDAE* Taylor, 1968 (1843)
Caudacaecilia Taylor, 1968
Ichthyophis Fitzinger, 1826
Familia *SCOLECOMORPHIDAE* Taylor, 1969
Crotaphatrema Nussbaum, 1985
Scolecomorphus Boulenger, 1883

Familia *TYPHLONECTIDAE* Taylor, 1968
Atretochoana Nussbaum & Wilkinson, 1995
Chthonerpeton Peters, 1879
Nectocaecilia Taylor, 1968
Potomotyphlus Taylor, 1968
Typhlonectes Peters, 1879
Familia *URAEOTYPHLIDAE* Nussbaum, 1979
Uraeotyphlus Peters, 1879
Superfamilia *RHINATREMATOIDEA* Nussbaum, 1977
Familia *RHINATREMATIDAE* Nussbaum, 1977
Epicrionops Boulenger, 1883
Rhinatrema Duméril & Bibron, 1841
Epifamilia † *EOCAECILIOIDIA* Jenkins & Walsh, 1993
Superfamilia † *EOCAECILIOIDEA* Jenkins & Walsh, 1993
Familia † *EOCAECILIIDAE* Jenkins & Walsh, 1993
† *Eocaecilia* Jenkins & Walsh, 1993

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Amphibia Mundi. 1.2. Recent amphibians: generic and infrageneric taxonomic additions (1981-2002)

Alain Dubois*, Ronald I. Crombie** & Frank Glaw***

* Vertébres: Reptiles et Amphibiens,
USM 0602 Taxonomie and Collections,
Departement de Systematique and Evolution,
Museum national d Histoire naturelle,
25 rue Cuvier, 75005 Paris, France
<adubois@mnhn fr>

** California Academy of Sciences,
875 Howard Street, San Francisco, CA 94103-3098, USA
<rcrombie@calacademy org>

*** Zoologische Staatssammlung,
81247 Munchen, Germany
<Frank.Glaw@zsm mwn de>

The present list concerns additions in the taxonomy of Neobatrachi (i e , recent amphibians, taxa represented by at least one species in the currently living fauna of our planet: see Dubois, 2004), for taxa at rank genus and below, published before 2003 after the three lists of recent amphibians taxa of Frost (1985), Duellman (1993) and Glaw et al (1998) and the two lists of fossil taxa of this group of Estes (1981) and Sanchíz (1998), or absent from these five lists The period covered by these additions starts in 1981 for taxa of fossil gymnophiones and urodeles, in 1993 for taxa of recent amphibians, and in 1998 for taxa of fossil anurans It ends on 31 December 2002 for all these groups. We tried to include all new nomina that had been overlooked in the lists cited above, or for which we identified errors in these lists. However, nomina of lower recent taxa anterior to 1993 not considered in Frost's (1985) and Duellman's (1993) checklists (i.e , most synonyms and most nomina of valid subgenera and subspecies) were not included, as their inclusion would have increased the present list by hundreds, if not thousands, of nomina Most of these nomina anterior to 1st January 1970 are to be found in Gorham (1974), but a gap exists for the period 1970-1992.

Only new nomina are listed, and taxonomic or nomenclatural changes other than additions (e g , synonymisation or revalidation of nomen, change of rank or higher taxonomic allocation of taxon, subsequent type designation, first reviser action, orthographic emendation) are not considered here The new nomina are listed below by alphabetical order under families and subfamilies according to the general taxonomic frame of Dubois (2005*a*).

New nomina of the species-series (i e , species and subspecies, Dubois, 2000, 2005*b-c*) are printed in *lower case Italics*, followed by the *country* of the *type-locality* of the taxon. Although many species are described on the basis of specimens collected in a single locality or a few neighbouring localities (see Dubois, 2004: 24), this is not a general rule, and at any rate mention of the country of the type locality is not to be contrued as the known or inferred geographical distribution of the taxon In most cases, only the name of the country is given, but for a few countries that are either very large Australia, Brazil, Canada, China, India, USA) or that cover several important land masses (Indonesia, Malaysia), the first-level administrative division (province, state, etc) is also given Names of countries are given in English, but those of first-level administrative divisions are in the language of the country, even when a common English translation exists.

New nomina of the genus-series (i.e., genus or subgenus, Dubois, 2000, 2005*b-c*) are printed in ***lower case bold Italics***, followed by the nomina of their *type-species* and the *country* of the *type locality* of the latter (not the known or inferred geographical distribution of the taxon).

The nomina of fossil taxa are preceded by the sign †. For such taxa, beside the country of the type-locality, the *stratigraphical level* of the latter (i.e., not the known or inferred stratigraphical distribution of the taxon) is provided.

Nomenclaturally unavailable nomina (i.e., nomina nuda and other kinds of anoplonyms, as defined by Dubois, 2000) are presented below "between quotation marks".

In zoological taxonomy, among two synonymous nomina, the valid one is the first published (rule of priority). For this reason, knowing the actual date of public distribution (publication date) of a book or paper is an important information. Below, publication dates as indicated on the works themselves are accepted as true in the absence of contradictory information. Whenever more precise information is available, the actual date of publication, either exact [day] or rough [month], is added between square brackets after the year at the beginning of reference. The source of this information is given, also between square brackets, at the end of the reference. When only incomplete information is available (e.g., evidence that a work was published later than its printed date, but no precise publication date), this information is also given between square brackets at the end of the reference. Publication dates as given on the covers of some journals or reprints are not accepted as genuine evidence of exact publication date, because the exact date at which a publication was actually distributed can be known with certainty only afterwards (e.g., a planned date of distribution can have to be modified because of unexpected delays, strike, etc.)

We did our best to provide the complete titles of publications and the names of administrative divisions of countries in their original languages, as well as the names of authors, with proper accents and other diacritic marks, e.g. using "ö" and not "oe" or "o", "ñ" and not "n", or "ž" and not "z". Such a respect for persons and languages other than English is becoming rare in many journals and databases, even major ones. We would appreciate receiving corrections from readers if mistakes in this respect remain in the present document. Titles of works were presented under their English translation only when the title in the original language was not written in Roman alphabet.

This list only provides information on new nomina *published* in the period 1981-2002 for amphibian taxa then considered new. Since their original description, some of these nomina have already been synonymized, or have had a change of nomenclatural rank (subspecies raised to species rank, or the reverse, etc.), or have been shown to apply to taxa that were wrongly allocated to higher taxa, e.g., *Scutiger mokokchungensis* Das & Chanda, 2000 (*Pelobatidae*, *Megophryinae*), which was later shown to be a member of the *Ranidae Dicroglossinae*. In the list below, only the original combination (including its original mispellings if present) is given, not the subsequent synonymisation or change of status. However, as nomina are listed under family-series taxa, a few taxa, for which wrong taxonomic allocation is certain, were listed under their proper taxon, albeit in their original combination, in order not to create any new combination in the present work. Reference to evidence supporting the taxonomic transfer, when relevant, is provided as a "**Comment**" after the nomen. In a few cases, no previous published statement is known to exist, so the responsibility of the transfer is acknowledged between square brackets (e.g., for *Rana charlesdarwini*).

A few nomina were initially published with "incorrect original spellings" as defined by Art. 32.4 of the *Code*. For such nomina, we provide the "correct original spelling" according to Art. 32.5 of the *Code*, with reference to the first user of this spelling if the latter has already been corrected. This applies to species-series nomina mispelled because of wrong agreement in gender with the generic nomen (Art. 31.2), but not to nomina unusually formed from personal names (Art. 31.1), for reasons explained in detail by Crochet & Dubois (244-496). A few other nomina were initially published with "multiple original spellings" as defined by Art. 19.3 of the *Code*; in such cases, we provide information of the

"correct original spelling" chosen by the first-reviser (Art. 24 2 3 and 32 2 1), and, if no such first-reviser action has yet been taken, we provide it.

The present list will be regularly followed by updates published in *Amphibia Mundi*. Although we did our best to collect all the available information on amphibian taxonomic novelties published from 1981 to 2002 that had not been provided in the five lists mentioned above, no doubt we overlooked a number of publications This is unavoidable, as even the *Zoological Record*, with an experience of one and a half century, still overlooks a large proportion of publications and new nomina (BOUCHET & ROCROI, 1992, 1993). Readers and users of this first list are therefore encouraged to send us corrections and additions. This new information will be included in our subsequent lists Furthermore, in order to avoid our overlooking their forthcoming works, all amphibian taxonomists worldwide are strongly encouraged to send spontaneously a copy of each of their publications (books and reprints) having taxonomic, nomenclatural or distributional contents to the coordinator of *Amphibia Mundi*, Alain DUBOIS (Reptiles & Amphibiens, Muséum national d'Histoire naturelle, 25 rue Cuvier, 75005 Paris, France) The works so received will be deposited in the public herpetological library of the Paris Museum, where they will be freely available to all visitors and library users.

Classis **AMPHIBIA** De Blainville, 1816

Subclassis **NEOBATRACHI** Sarasin & Sarasin, 1890

Superordo † **ALLOCAUDATA** Fox & Naylor, 1982

Ordo † **ALLOCAUDATA** Fox & Naylor, 1982

Epifamilia † *ALBANERPETONTOIDIA* Estes & Hoffstetter, 1976

Superfamilia † *ALBANERPETONTOIDEA* Estes & Hoffstetter, 1976

Familia † *ALBANERPETONTIDAE* Estes & Hoffstetter, 1976

† *Albanerpeton arthridion* Fox & Naylor, 1982. - USA (Texas). Cretaceous.
† *Albanerpeton cifellii* Gardner, 1999. – USA (Utah). Cretaceous.
† *Albanerpeton galaktion* Fox & Naylor, 1982. – Canada (Alberta) Cretaceous.
† *Albanerpeton gracilis* Gardner, 2000. Canada (Alberta). Cretaceous.
† ***Celtedens*** McGowan & Evans, 1995 **Type-species**, by original designation: † *Triton megacephalus* Costa, 1864. – Italy. Cretaceous.
† *Celtedens ibericus* McGowan & Evans, 1995. - Spain. Cretaceous
† ***Nukusurus*** Nessov, 1981 **Type-species**, by original designation † *Nukusurus insuetus* Nessov, 1981. – Uzbekistan. Cretaceous.
† *Nukusurus insuetus* Nessov, 1981. - Uzbekistan Cretaceous.
† *Nukusurus sodalis* Nessov, 1997. – Uzbekistan. Cretaceous

Superordo **BATRACHIA** Brongniart, 1800

Ordo **ANURA** Duméril, 1806

Incertae sedis

† ***Avitabatrachus*** Baez, Trueb & Calvo, 2000 - **Type-species**, by original designation † *Avitabatrachus uliana* Báez, Trueb & Calvo, 2000. – Argentina Cretaceous.

† *Avitabatrachus uliana* Baez, Trueb & Calvo, 2000 – Argentina. Cretaceous.

† ***Mesophryne*** Gao & Wang, 2001. – **Type-species**, by original designation: † *Mesophryne beipiaoensis* Gao & Wang, 2001. – China (Liaoning). Mesozoic.

† *Mesophryne beipiaoensis* Gao & Wang, 2001. – China (Liaoning). Mesozoic.

† ***Nezpercius*** Blob, Carrano, Rogers, Forster & Espinoza, 2001. **Type-species**, by original designation: † *Nezpercius dodsoni* Blob, Carrano, Rogers, Forster & Espinoza, 2001. USA (Montana). Cretaceous.

† *Nezpercius dodsoni* Blob, Carrano, Rogers, Forster & Espinoza, 2001 USA (Montana). Cretaceous

† ***Sunnybatrachus*** Evans & McGowan, 2002 – **Type-species**, by original designation. † *Sunnybatrachus purbeckensis* Evans & McGowan, 2002. – England. Cretaceous.

† *Sunnybatrachus purbeckensis* Evans & McGowan, 2002. England Cretaceous.

† *Thaumastosaurus wardi* Holman & Harrison, 2002. – England. Eocene.

Epifamilia *Bombinatoroidia* Gray, 1825

Superfamilia *Bombinatoroidea* Gray, 1825

Familia *Bombinatoridae* Gray, 1825

Incertae sedis

† ***Callobatrachus*** Wang & Gao, 1997. - **Type-species**, by original designation: † *Callobatrachus sanyanensis* Wang & Gao, 1997 China (Liaoning) Jurassic-Cretaceous boundary.

† *Callobatrachus sanyanensis* Wang & Gao, 1997 China (Liaoning). Jurassic-Cretaceous boundary.

† ***Latoglossus*** Hossini, 2000. **Type-species**, by original designation: † *Latoglossus zraus* Hossini, 2000. – Morocco. Miocene.

† *Latoglossus zraus* Hossini, 2000. – Morocco. Miocene

Subfamilia *Alytinae* Fitzinger, 1843

Alytes obstetricans pertinax García-París & Martínez-Solano, 2001. – Spain.

Subfamilia *Bombinatorinae* Gray, 1825

Bombina lichuanensis Ye & Fei *in* Ye, Fei & Yu, 1993 China (Hubei). **Comment**. Species redescribed as new by Ye & Fei (1994*a*), with the same nomen and authors (see Ye, Fei & Hu, 1993 364), but nomen is available as from Ye, Fei & Hu (1993: 113). Not being mentioned in the original publication of the nomen, the "holotype" designated by Ye & Fei (1994*a* 22, 25) is in fact the lectotype of this nominal species.

Subfamilia † *Gobiatinae* Roček & Nessov, 1993

† ***Cretasalia*** Gubin, 1999 **Type-species**, by original designation *Cretasalia tsybini* Gubin, 1999 Mongolia. Cretaceous

† *Cretasalia tsybini* Gubin, 1999. - Mongolia. Cretaceous.

† "***Gobiates***" Špinar, 1983 Mongolia Cretaceous **Comment**. Nomenclaturally unavailable genus-series nomen, as published without designation of a type species Nomen made nomenclaturally available in Špinar & Tatarinov (1986).

Epifamilia *LEIOPELMATOIDIA* Mivart, 1869

Superfamilia *LEIOPELMATOIDEA* Mivart, 1869

Familia *LEIOPELMATIDAE* Mivart, 1869

Subfamilia *LEIOPELMATINAE* Mivart, 1869

Leiopelma pakeka Bell, Daugherty & Hay, 1998. – New Zealand.

Epifamilia *PELOBATOIDIA* Bonaparte, 1850

Superfamilia *PELOBATOIDEA* Bonaparte, 1850

Familia *PELOBATIDAE* Bonaparte, 1850

Incertae sedis

† ***Liaobatrachus*** Ji Shu'an & Ji Qiang, 1998 **Type-species**, by original designation † *Liaobatrachus grabaui* Ji Shu'an & Ji Quang, 1998. China (Liaoning). Mesozoic
† *Liaobatrachus grabaui* Ji Shu'an & Ji Qiang, 1998 – China (Liaoning) Mesozoic.

Subfamilia *MEGOPHRYINAE* Noble, 1931 (1850)

Tribus *LEPTOBRACHIINI* Dubois, 1983

Leptobrachium banae Lathrop, Murphy, Orlov & Ho, 1998*a*. Vietnam.
Leptobrachium hainanensis Ye & Fei *in* YE, FEI & HU, 1993. – China (Hainan).
Leptobrachium smithi Matsui, Nabhitabhata & Panha, 1999. – Thailand
Leptobrachium xanthospilum Lathrop, Murphy, Orlov & Ho, 1998*a*. – Vietnam.
Leptobrachium (Vibrissaphora) echinatum Dubois & Ohler, 1998. – Vietnam.
Leptolalax alpinus Fei, Ye & Li *in* FEI, YE & HUANG, 1991. China (Yunnan). **Comment** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & LI (1992), but nomen is available as from FEI, YE & HUANG (1991).
Leptolalax liui Fei & Ye *in* FEI, YE & HUANG, 1991. – China (Fujian).
Leptolalax nahangensis Lathrop, Murphy, Orlov & Ho, 1998*b*. – Vietnam.
Leptolalax pluvialis Ohler, Marquis, Swan & Grosjean, 2000. – Vietnam.
Leptolalax sungi Lathrop, Murphy, Orlov & Ho, 1998*b*. - Vietnam
Leptolalax tuberosus Inger, Orlov & Darevsky, 1999. - Vietnam.
Leptolalax ventripunctatus Fei, Ye & Li *in* FEI, YE & HUANG, 1991 China (Yunnan) - **Comment**. Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & LI (1992), but nomen is available as from FEI, YE & HUANG (1991).
Oreolalax granulosus Fei, Ye & Chen *in* FEI, YE & HUANG, 1991 China (Yunnan) **Comment** Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & CHEN (1992), but nomen is available as from FEI, YE & HUANG (1991)
Oreolalax nanjiangensis Fei & Ye *in* FEI, YE & LI, 1999. – China (Yunnan).
Scutiger (Aelurophryne) bhutanensis Delorme & Dubois, 2001. – Bhutan.

Scutiger (Aelurophryne) jiulongensis Fei, Ye & Jiang *in* FEI, JIANG, YE & CHEN, 1996. - China (Sichuan)
Scutiger (Oreolalax) xiangchengensis deqenicus Yang & He, 1990. – China (Yunnan).

Tribus *MEGOPHRYINI* Noble, 1931 (1850)

Brachytarsophrys chuannanensis Fei, Ye & Yang *in* FEI & YE, 2001*a* – China (Sichuan)
Brachytarsophrys platyparietus Rao & Yang, 1997*b*. – China (Yunnan).
Megophrys caudoprocta Shen, 1994. – China (Hunan).
Megophrys daweimontis Rao & Yang, 1997*a* – China (Yunnan).
Megophrys glandulosa Fei, Ye & Huang, 1991 China (Yunnan). **Comment**. Species redescribed as new, with the same nomen, authors and holotype, in FEI, YE & HUANG (1992), but nomen is available as from FEI, YE & HUANG (1991).
Megophrys mangshanensis Fei & Ye *in* FEI, YE & HUANG, 1991 – China (Hunan) **Comment**: Species redescribed as new, with the same nomen, authors and holotype, by FEI, YE & HUANG (1992), but nomen is available as from FEI, YE & HUANG (1991).
Megophrys minor binchuanensis Ye & Fei, 1995. – China (Yunnan).
Megophrys shuichengensis Tian, Gu & Sun, 2000. – China (Guizhou)
Megophrys wawuensis Fei, Jiang & Zheng *in* FEI & YE, 2001*a*. China (Sichuan). **Comment**: Species redescribed in detail by JIANG, FEI, ZHENG, YE, XIE & CHEN (2002).
Megophrys wuliangshanensis Ye & Fei, 1995. – China (Yunnan).
Megophrys wushanensis Ye & Fei, 1995. – China (Sichuan).
Megophrys zhangi Ye & Fei, 1993. – China (Xizang).
Megophrys (Xenophrys) auralensis Ohler, Swan & Daltry, 2002. – Cambodia.
Panophrys Rao & Yang, 1997 **Type-species**, by original designation *Megophrys omeimontis* Liu, 1950. – China (Sichuan).

Subfamilia *PELODYTINAE* Bonaparte, 1850

Pelodytes ibericus Sánchez-Herraiz, Barbadillo, Machordom & Sanchiz, 2000 Spain

Epifamilia *PIPOIDIA* Gray, 1825

Superfamilia *PIPOIDEA* Gray, 1825

Familia † *PALAEOBATRACHIDAE* Cope, 1865

† *Palaeobatrachus robustus* Hossini & Rage, 2000. France. Miocene.

Familia *PIPIDAE* Gray, 1825

Subfamilia *DACTYLETHRINAE* Hogg, 1838

† ***Pachybatrachus*** Baez & Rage, 1998 **Type-species**, by original designation· † *Pachybatrachus taqueti* Baez & Rage, 1998. Niger. Cretaceous.
† *Pachybatrachus taqueti* Baez & Rage, 1998. – Niger. Cretaceous

† *Shelania laurenti* Baez & Pugener, 1998. – Argentina. Palaeogene.
† *Xenopus arabiensis* Henrici & Báez, 2001. – Yemen. Oligocene.

Familia *RHINOPHRYNIDAE* Günther, 1858

† ***Rhadinosteus*** Henrici, 1998. **Type-species**, by original designation: † *Rhadinosteus parvus* Henrici, 1998. – USA (Utah). Jurassic.
† *Rhadinosteus parvus* Henrici, 1998. – USA (Utah). Jurassic.

Epifamilia *RANOIDIA* Rafinesque-Schmaltz, 1814

Superfamilia *HYLOIDEA* Rafinesque, 1815

Familia *BUFONIDAE* Gray, 1825

Adenomus dasi Manamendra-Arachchi & Pethiyagoda, 1998. – Sri Lanka
Ansonia anotis Inger, Tan & Yambun, 2001. – Malaysia (Sabah)
Ansonia inthanon Matsui, Nabhitabhata & Panha, 1998. – Thailand.
Ansonia kamblei Ravichandran & Pillai, 1996. – India (Maharashtra).
Atelopus angelito Ardila-Robayo & Ruiz-Carranza, 1998. – Colombia
Atelopus guanujo Coloma, 2002. – Ecuador
Atelopus guitarraensis Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia.
Atelopus lozanoi Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia
Atelopus mandingues Osorno-Muñoz, Ardila-Robayo & Ruiz-Carranza, 2001. – Colombia.
Atelopus mono-hernandezii Ardila-Robayo, Osorno-Muñoz & Ruiz-Carranza, 2002. – Colombia
Comment The original spelling of the epithet of this new species is incorrect and should be emended into *monohernandezii* according to Art. 32.5.2.3 of the *Code*.
Atelopus nanay Coloma, 2002. – Ecuador.
Atelopus petriruizi Ardila-Robayo, 1999. – Colombia
Atelopus reticulatus Lötters, Haas, Schick & Böhme, 2002. – Peru.
Atelopus siranus Lötters & Henzl, 2000. – Peru
Atelopus sonsonensis Vélez-Rodriguez & Ruiz-Carranza, 1997. – Colombia.
Bufo amieti Tandy & Perret, 2000. – Ivory Coast.
Bufo chavin Lehr, Kohler, Aguilar & Ponce, 2001. – Peru.
Bufo cristinae Vélez-Rodriguez & Ruiz-Carranza, 2002. – Colombia
Bufo danatensis taxkorensis Fei, Ye & Huang *in* FEI, YE, HUANG & CHEN, 1999. – China (Xinjiang).
Bufo jimi Stevaux, 2002. – Brazil (Bahia).
Bufo kumquat Das & Lim, 2001. – Malaysia (West Malaysia).
Bufo leucomyos McCranie & Wilson, 2000. – Honduras.
Bufo melanostictus hazarensis Khan, 2001. – Pakistan.
Bufo noellerti Manamendra-Arachchi & Pethiyagoda, 1998. – Sri Lanka
Bufo pseudoraddei baturae Stock, Schmid, Steinlein & Grosse, 1999. – Pakistan.
Bufo sclerocephalus Mijares-Urrutia & Arends, 2001. – Venezuela
Bufo stanlaii Lötters & Kohler, 2000. – Bolivia.
Bufo taiensis Rödel & Ernst, 2000. – Ivory Coast.
Bufo zamdaensis Fei, Ye & Huang *in* FEI, YE, HUANG & CHEN, 1999. – China (Xizang)
Churamiti Channing & Stanley, 2002. **Type-species**, by original designation: *Churamiti maridadi* Channing & Stanley, 2002. – Tanzania
Churamiti maridadi Channing & Stanley, 2002. – Tanzania.
Melanophryniscus klappenbachi Prigioni & Langone, 2000. – Argentina

Melanophryniscus simplex Caramaschi & Cruz, 2002. – Brazil (Santa Catarina).
Melanophryniscus spectabilis Caramaschi & Cruz, 2002. – Brazil (Santa Catarina).
Nectophrynoides asperginis Poynton, Howell, Clarke & Lovett, 1999. – Tanzania.
Rhamphophryne ruizi Grant, 2000. – Colombia
Stephopaedes howelli Poynton & Clarke, 1999. – Tanzania.
Stephopaedes usambarae Poynton & Clarke, 1999. – Tanzania
"***Torrentophryne***" Rao & Yang, 1994 – China (Yunnan). – **Comment**: Nomenclaturally unavailable genus-series nomen, as published without designation of a type-species.
Torrentophryne Yang *in* Yang, Liu & Rao, 1996 – **Type-species**, by original designation *Torrentophryne aspinia* Yang & Rao, 1996. – China (Yunnan).
Torrentophryne aspinia Rao & Yang, 1994. – China (Yunnan). – **Comments**: (1) Although published combined with a nomenclaturally unavailable genus-series nomen, this specific nomen is available as the *Code* expressly states that the generic nomen with which a new specific nomen must be combined "need not be valid or even available" (Anonymous, 1999: Art. 11.9.3.1). (2) Species redescribed as new by Yang & Rao *in* Yang, Liu & Rao (1996), with the same nomen but with a different order of names of authors, but nomen is available as from Rao & Yang (1994). Not being mentioned in the original publication of the nomen, the "holotype" designated by Yang & Rao *in* Yang, Liu & Rao (1996) is in fact the lectotype of this nominal species.
"*T[orrentophryne] tuberculous*" Rao & Yang, 1994. – Nomen nudum
Torrentophryne tuberospinia Yang & Liu *in* Yang, Liu & Rao, 1996. – China (Yunnan). – **Comment**: Specific nomen misspelled *tuberospina* in Glaw et al. (1998).
Wolterstorffina chirioi Boistel & Amiet, 2001. – Cameroon.

Familia *Centrolenidae* Taylor, 1951

Centrolene papillahallicum Noonan & Harvey, 2000. – Guyana.
Cochranella rosada Ruiz-Carranza & Lynch, 1997. – Colombia
Cochranella spilota Ruiz-Carranza & Lynch, 1997. – Colombia
Hyalinobatrachium crurifasciatum Myers & Donnelly, 1997. – Venezuela
Hyalinobatrachium eccentricum Myers & Donnelly, 2001. – Venezuela.
Hyalinobatrachium esmeralda Ruiz-Carranza & Lynch, 1998. – Colombia.
Hyalinobatrachium guairarepanensis Señaris, 2001. – Venezuela.
Hyalinobatrachium ibama Ruiz-Carranza & Lynch, 1998. – Colombia
Hyalinobatrachium mondolfii Señaris & Ayarzagüena, 2002*a*. – Venezuela
Hyalinobatrachium nouraguensis Lescure & Marty, 2000. – French Guyana.
Hyalinobatrachium ruedai Ruiz-Carranza & Lynch, 1998. – Colombia.

Familia *Dendrobatidae* Cope, 1865 (1850)

Colostethus alessandroi Grant & Rodriguez, 2001. – Peru
Colostethus atopoglossus Grant, Humphrey & Myers, 1997. – Colombia.
Colostethus ayarzaguenai La Marca, 1996. – Venezuela
Colostethus borjai Rivero & Serna, 1995. – Colombia
Colostethus cacerensis Rivero & Serna, 1995. – Colombia.
Colostethus caeruleodactylus Lima & Caldwell, 2001. – Brazil (Amazonas).
Colostethus cepedai Morales, 2002. – Colombia.
Colostethus conspicuus Morales, 2002. – Peru.
Colostethus crombiei Morales, 2002. – Brazil (Para).
Colostethus dysprosium Rivero & Serna, 1995. – Colombia.

Colostethus erasmios Rivero & Serna, 1995. – Colombia.
Colostethus excisus Rivero & Serna, 1995. – Colombia.
Colostethus fascianigrus Grant & Castro, 1998. – Colombia.
Colostethus fratisenescus Morales, 2002. – Ecuador.
Colostethus fuscellus Morales, 2002. – Brazil (Amazonas).
Colostethus gasconi Morales, 2002. – Brazil (Amazonas)
Colostethus guanayensis La Marca, 1996. – Venezuela.
Colostethus insperatus Morales, 2002. – Ecuador.
Colostethus larandinus Yústiz, 1991. – Venezuela.
Colostethus lynchi Grant, 1998. – Colombia.
Colostethus masniger Morales, 2002. – Brazil (Pará)
Colostethus melanolaemus Grant & Rodriguez, 2001. – Peru
Colostethus murisipanensis La Marca, 1996. – Venezuela.
Colostethus ornatus Morales, 2002. – Peru
Colostethus parimae La Marca, 1996. – Venezuela.
Colostethus picachos Ardila-Robayo, Acosta-Galvis & Coloma, 2000. – Colombia
Colostethus praderioi La Marca, 1996. – Venezuela.
Colostethus pseudopalmatus Rivero & Serna, 1995. – Colombia.
Colostethus ramirezi Rivero & Serna, 1995. – Colombia
Colostethus roraima La Marca, 1996. – Venezuela
Colostethus saltuarius Grant & Ardila-Robayo, 2002. – Colombia
Colostethus sumtuosus Morales, 2002. – Brazil (Pará).
Colostethus tamacuarensis Myers & Donnelly, 1997. – Venezuela
Colostethus tepuyensis La Marca, 1996. – Venezuela.
Colostethus undulatus Myers & Donnelly, 2001. – Venezuela.
Colostethus vanzolinius Morales, 2002 – Brazil (Amazonas).
Colostethus wayuu Acosta, Cuentas & Coloma, 2000. – Colombia.
Cryptophyllobates Lötters, Jungfer & Widmer, 2000. **Type-species**, by original designation: *Phyllobates azureiventris* Kneller & Henle, 1985. – Peru.
Dendrobates amazonicus Schulte, 1999. – Peru.
Dendrobates claudiae Jungfer, Lötters & Jörgens, 2000. – Panama.
Dendrobates duellmani Schulte, 1999. – Peru.
Dendrobates flavovittatus Schulte, 1999. – Peru.
Dendrobates imitator intermedius Schulte, 1999. – Peru
Dendrobates imitator yurimaguensis Schulte, 1999. – Peru.
Dendrobates rubrocephalus Schulte, 1999. – Peru.
Epipedobates planipaleae Morales & Velazco, 1998. – Peru
Epipedobates pongoensis Schulte, 1999. – Peru.
Epipedobates simulans Myers, Rodriguez & Icochea, 1998. – Peru.
Mannophryne caquetio Mijares-Urrutia & Arends R., 1999*b*. – Venezuela.
Mannophryne lamarcai Mijares-Urrutia & Arends R , 1999*a*. – Venezuela.

Familia *HYLIDAE* Rafinesque, 1815

Subfamilia *HEMIPHRACTINAE* Peters, 1862

Gastrotheca stictopleura Duellman, Lehr & Aguilar, 2001. – Peru
Hemiphractus helioi Sheil & Mendelson, 2001 – Peru
Stefania ackawaio MacCulloch & Lathrop, 2002. Guyana

Stefania ayangannae MacCulloch & Lathrop, 2002. – Guyana.
Stefania coxi MacCulloch & Lathrop, 2002 – Guyana
Stefania oculosa Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.
Stefania percristata Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.
Stefania riveroi Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela
Stefania satelles Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.
Stefania schuberti Señaris, Ayarzagüena & Gorzula, 1996. – Venezuela.
Stefania tamacuarina Myers & Donnelly, 1997. – Venezuela

Subfamilia *Hylinae* Rafinesque, 1815

Hyla abdivita Campbell & Duellman, 2000. – Mexico.
Hyla ameibothalame Canseco-Márquez, Mendelson & Gutierrez-Mayen, 2002 – Mexico
Hyla amicorum Mijares-Urrutia, 1998. – Venezuela.
Hyla annectans chuanxiensis Ye & Fei *in* Ye, Fei, Li & Li, 2000. – China (Sichuan).
Hyla annectans jingdongensis Ye & Fei *in* Ye, Fei, Li & Li, 2000. – China (Yunnan). **Comment**. This new nomen appears under two different spellings in the original publication: *jingdongensis* (once in p. 88, twice in p. 89, twice in p. 91, twice in p. 93) and *jindongensis* (once in p. 89). These spellings are "multiple original spellings" according to the *Code*. Acting as first revisers, we hereby choose the spelling *jingdongensis* as "correct original spelling" of this nomen.
Hyla annectans tengchongensis Ye, Fei & Li *in* Ye, Fei, Li & Li, 2000. – China (Yunnan). **Comment**. This new nomen appears under three different spellings in the original publication: *tengchongensis* (once in p. 88, twice in p. 89, once in p. 90, once in p. 91, once in p. 93), *tangchongensis* (once in p. 91) and *tenchongensis* (once in p. 93). These spellings are "multiple original spellings" according to the *Code*. Acting as first revisers, we hereby choose the spelling *tengchongensis* as "correct original spelling" of this nomen.
Hyla annectans wulingensis Shen, 1997. – China (Hunan).
Hyla araguaya Napoli & Caramaschi, 1998. – Brazil (Mato Grosso)
Hyla buriti Caramaschi & Cruz, 1999. – Brazil (Minas Gerais)
Hyla cachimbo Napoli & Caramaschi, 1999*b*. – Brazil (Para).
Hyla calthula Ustach, Mendelson, McDiarmid & Campbell, 2000. – Mexico.
Hyla cerradensis Napoli & Caramaschi, 1998. – Brazil (Mato Grosso do Sul)
Hyla cruzi Pombal & Bastos, 1998 – Brazil (Goiás)
Hyla cyclada Campbell & Duellman, 2000. – Mexico.
Hyla delarivai Kohler & Lötters, 2001*b*. – Bolivia.
Hyla dendrophasma Campbell, Smith & Acevedo, 2000 – Guatemala.
Hyla elianeae Napoli & Caramaschi, 2000. – Brazil (Mato Grosso do Sul)
Hyla ericae Caramaschi & Cruz, 2000. – Brazil (Goias).
Hyla gaucheri Lescure & Marty, 2000. – French Guyana.
Hyla jimi Napoli & Caramaschi, 1999*a*. – Brazil (São Paulo).
Hyla joannae Köhler & Lötters, 2001*a*. – Bolivia.
Hyla nephila Mendelson & Campbell, 1999. – Mexico.
Hyla palaestes Duellman, De la Riva & Wild, 1997. – Peru
Hyla phaeopleura Caramaschi & Cruz, 2000. – Brazil (Goiás).
Hyla psarosema Campbell & Duellman, 2000. – Mexico.
Hyla pseudomeridiana Cruz, Caramaschi & Dias, 2000. – Brazil (Rio de Janeiro).
Hyla ravida Caramaschi, Napoli & Bernardes, 2001. – Brazil (Minas Gerais).
Hyla rhea Napoli & Caramaschi 1999*a*. – Brazil (São Paulo)

Hyla rhythmicus Señaris & Ayarzagüena, 2002*b* Venezuela **Comment**: The original spelling of the epithet of this new species is incorrect and should be emended into *rhythmica* according to Art. 31.2 of the *Code*.

Hyla simplex hainanensis Fei & Ye, 2000*b*. – China (Hainan).

Hyla stenocephala Caramaschi & Cruz, 1999. – Brazil (Minas Gerais).

Hyla yaracuyana Mijares-Urrutia & Rivero, 2000 – Venezuela.

Osteocephalus ayarzaguenai Gorzula & Señaris, 2000. – Venezuela.

Osteocephalus deridens Jungfer, Ron, Seipp & Almendáriz, 2000. – Ecuador.

Osteocephalus exophthalmus Smith & Noonan, 2001. – Guyana.

Osteocephalus fuscifacies Jungfer, Ron, Seipp & Almendariz, 2000. – Ecuador

Osteocephalus heyeri Lynch, 2002. – Colombia.

Osteocephalus leoniae Jungfer & Lehr, 2001. – Peru.

Osteocephalus mutabor Jungfer & Hodl, 2002. – Ecuador

Osteocephalus yasuni Ron & Pramuk, 2000. – Ecuador.

Plectrohyla exquisita McCranie & Wilson, 1998. – Honduras.

Plectrohyla psiloderma McCranie & Wilson, 1999*a* – Honduras.

Pseudis cardosoi Kwet, 2000. – Brazil (Rio Grande do Sul)

Pseudis tocantins Caramaschi & Cruz, 1998. – Brazil (Tocantins).

Ptychohyla acrochorda Campbell & Duellman, 2000. – Mexico.

Ptychohyla zophodes Campbell & Duellman, 2000. – Mexico.

Scinax arduous Peixoto, 2002. – Brazil (Espírito Santo)

Scinax jolyi Lescure & Marty, 2000. – French Guyana.

Tepuihyla Ayarzagüena, Señaris & Gorzula, 1993 – **Type-species**, by original designation *Hyla rodriguezi* Rivero, 1968. – Venezuela.

Tepuihyla celsae Mijares-Urrutia, Manzanilla-Puppo & La Marca, 2000 Venezuela.

Xenohyla Izecksohn, 1998. **Type-species**, by original designation *Hyla truncata* Izecksohn, 1959 – Brazil (Rio de Janeiro)

Xenohyla eugenioi Caramaschi, 1998. – Brazil (Bahia).

Subfamilia *PELODRYADINAE* Günther, 1858

Litoria andiirrmalin McDonald, 1997. – Australia (Queensland).

Litoria daviesae Mahony, Knowles, Foster & Donnellan, 2001 Australia (New South Wales)

Litoria elkeae Gunther & Richards, 2000. – Indonesia (Irian Jaya)

Litoria macki Richards, 2001. – Indonesia (Irian Jaya)

Litoria wapogaensis Richards & Iskandar, 2001. – Indonesia (Irian Jaya).

Subfamilia *PHYLLOMEDUSINAE* Günther, 1858

Phyllomedusa camba De la Riva, 2000. – Bolivia

Phyllomedusa oreades Brandão, 2002. – Brazil (Goiás).

Familia *LEPTODACTYLIDAE* Werner, 1896 (1838)

Incertae sedis

† ***Estesiella*** Baez, 1995 Bolivia Paleocene **Comment**. Nomen novum pro *Estesius* Baez, 1995 [nec *Estesius* Wallach, 1984].

Subfamilia *Brachycephalinae* Gunther, 1858

Brachycephalus pernix Pombal, Wistuba & Bornschein, 1998. – Brazil (Paraná)
Brachycephalus vertebralis Pombal, 2001. – Brazil (Rio de Janeiro)
Eleutherodactylus actinolaimus Lynch & Rueda-Almonacid, 1998. – Colombia.
Eleutherodactylus amniscola Campbell & Savage, 2000. – Guatemala
Eleutherodactylus anemerus Duellman & Pramuk, 1999 – Peru
Eleutherodactylus angustilineatus Lynch, 1998*a*. – Colombia.
Eleutherodactylus anthrax Lynch, 2001*b*. – Colombia.
Eleutherodactylus araiodactylus Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus ardalonychus Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus ashkapara Köhler, 2000*b*. – Bolivia.
Eleutherodactylus atrabracus Duellman & Pramuk, 1999. – Peru
Eleutherodactylus avicuporum Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus avius Myers & Donnelly, 1997. – Venezuela.
Eleutherodactylus baiotis Lynch, 1998*a*. – Colombia.
Eleutherodactylus blairhedgesi Estrada, Díaz & Rodriguez, 1998. – Cuba.
Eleutherodactylus capitonis Lynch, 1998*a*. – Colombia.
Eleutherodactylus catalinae Campbell & Savage, 2000. – Costa Rica
Eleutherodactylus cavernibardus Myers & Donnelly, 1997. – Venezuela
Eleutherodactylus charadra Campbell & Savage, 2000 – Guatemala.
Eleutherodactylus coffeus McCranie & Köhler, 1999*b*. – Honduras.
Eleutherodactylus cuneirostris Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus duende Lynch, 2001*a*. – Colombia
Eleutherodactylus dundeei Heyer & Muñoz, 1999. – Brazil (Mato Grosso).
Eleutherodactylus epacrus Lynch & Suarez-Mayorga, 2000. – Colombia.
Eleutherodactylus exoristus Duellman & Pramuk, 1999. – Ecuador.
Eleutherodactylus factiosus Lynch & Rueda-Almonacid, 1998*a* – Colombia
Eleutherodactylus fallax Lynch & Rueda-Almonacid, 1999 – Colombia.
Eleutherodactylus fetosus Lynch & Rueda-Almonacid, 1998*a*. – Colombia
Eleutherodactylus glamyrus Estrada & Hedges, 1997*c*. – Cuba.
Eleutherodactylus helvolus Lynch & Rueda-Almonacid, 1998*b*. – Colombia
Eleutherodactylus ibischi Reichle, Lötters & De La Riva, 2001. – Bolivia.
Eleutherodactylus inachus Campbell & Savage, 2000. – Guatemala
Eleutherodactylus infraguttatus Duellman & Pramuk, 1999. – Peru
Eleutherodactylus jaumei Estrada & Alonso, 1997. – Cuba.
Eleutherodactylus kelephus Lynch, 1998*a*. – Colombia.
Eleutherodactylus lemur Lynch & Rueda-Almonacid, 1998*b*. – Colombia.
Eleutherodactylus llojsintuta Kohler & Lötters, 1999. – Bolivia.
Eleutherodactylus melanogaster Duellman & Pramuk, 1999. – Peru
Eleutherodactylus memorans Myers & Donnelly, 1997. – Venezuela
Eleutherodactylus metabates Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus minionaetes Lynch, 1998*b*. – Colombia
Eleutherodactylus muscosus Duellman & Pramuk, 1999 – Peru.
Eleutherodactylus myllomyllon Savage, 2000 – Guatemala
Eleutherodactylus myops Lynch, 1998*a* – Colombia.
Eleutherodactylus nephophilus Duellman & Pramuk, 1999. – Peru
Eleutherodactylus olanchano McCranie & Wilson, 1999*b* – Honduras.
Eleutherodactylus olivaceus Kohler, Morales, Lotters, Reichle & Aparicio, 1998 – Bolivia

Eleutherodactylus operosus Savage, McCranie & Wilson, 1999. – Honduras.
Eleutherodactylus optimus Savage & Myers, 2002. – Colombia.
Eleutherodactylus paisa Lynch & Ardila-Robayo, 1999. – Colombia.
Eleutherodactylus palenque Campbell & Savage, 2000. – Mexico.
Eleutherodactylus paranaensis Langone & Segalla, 1996. – Brazil (Paraná)
Eleutherodactylus parectatus Lynch & Rueda-Almonacid, 1998*b*. – Colombia.
Eleutherodactylus pataikos Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus pechorum McCranie & Wilson, 1999*b*. – Honduras.
Eleutherodactylus pelorus Campbell & Savage, 2000. – Mexico.
Eleutherodactylus penelopus Lynch & Ruedas-Almonacid, 1999. – Colombia.
Eleutherodactylus percnopterus Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus phalarus Lynch, 1998*a*. – Colombia
Eleutherodactylus pinguis Duellman & Pramuk, 1999. - Peru.
Eleutherodactylus principalis Estrada & Hedges, 1997*a*. – Cuba.
Eleutherodactylus prochus Lynch, 1998*a*. – Colombia
Eleutherodactylus quantus Lynch, 1998*a*. – Colombia.
Eleutherodactylus quidditus Lynch, 2001*b*. – Colombia.
Eleutherodactylus reniforum Lynch, 2000. – Colombia.
Eleutherodactylus rhodostichus Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus rhyacobatrachus Campbell & Savage, 2000. - Costa Rica.
Eleutherodactylus riparius Estrada & Hedges, 1998. – Cuba.
Eleutherodactylus rivularis Diaz, Estrada & Hedges, 2001 – Cuba.
Eleutherodactylus rivulus Campbell & Savage, 2000. – Guatemala.
Eleutherodactylus rufioculis Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus rupinius Campbell & Savage, 2000. – Guatemala.
Eleutherodactylus sabrinus Campbell & Savage, 2000. – Guatemala
Eleutherodactylus sambaqui Mendes Castanho & Haddad, 2000. Brazil (Paraná).
Eleutherodactylus sanguineus Lynch, 1998*a*. – Colombia.
Eleutherodactylus serendipitus Duellman & Pramuk, 1999. – Peru.
Eleutherodactylus simulans Diaz & Fong, 2001. – Cuba.
Eleutherodactylus suetus Lynch & Rueda-Almonacid, 1998*b*. – Colombia.
Eleutherodactylus tinker Lynch, 2001*b*. – Colombia.
Eleutherodactylus tonyi Estrada & Hedges, 1997*b*. – Cuba.
Eleutherodactylus torrenticola Lynch & Rueda-Almonacid, 1998*a*. – Colombia
Eleutherodactylus turpinorum Hardy, 2001. – Trinidad & Tobago
Eleutherodactylus viejas Lynch & Ruedas-Almonacid, 1999. – Colombia.
Eleutherodactylus xeniolum Lynch, 2001*a* – Colombia.
Eleutherodactylus zophus Lynch & Ardila-Robayo, 1999. – Colombia.
Phrynopus adenopleurus Aguayo, Rodrigo & Harvey, 2001. – Bolivia.
Phrynopus barthlenae Lehr & Aguilar, 2002. – Peru.
Phrynopus carpish Lehr, Rodriguez & Córdova, 2002. Peru.
Phrynopus dagmarae Lehr, Aguilar & Köhler, 2002. – Peru.
Phrynopus fallaciosus Duellman, 2000 – Peru
Phrynopus heimorum Lehr, 2001. - Peru
Phrynopus horstpauli Lehr, Köhler & Ponce, 2000. – Peru
Phrynopus iatamasi Aguayo, Rodrigo & Harvey, 2001. – Bolivia
Phrynopus kauneorum Lehr, Aguilar & Köhler, 2002. – Peru.
Phrynopus pinguis Harvey & Ergueta, 1998. – Bolivia
Phrynopus spectabilis Duellman, 2000. – Peru.
Phrynopus thompsoni Duellman, 2000. – Peru

Phyllonastes carrascoicola De la Riva & Köhler, 1998. – Bolivia.
Phyllonastes ritarasquinae Kohler, 2000*a*. – Bolivia.
Psyllophryne hermogenesi Giaretta & Sawaya, 1998. – Brazil (São Paulo).

Subfamilia *Ceratophryinae* Tschudi, 1838

† *Ceratophrys ameghinorum* Fernicola, 2001. – Argentina. Neogene.

Subfamilia *Cycloramphinae* Bonaparte, 1850

Paratelmatobius cardosoi Pombal & Haddad, 1999. – Brazil (São Paulo).
Paratelmatobius mantiqueira Pombal & Haddad, 1999. – Brazil (São Paulo).
Rupirana Heyer, 1999. **Type-species**, by original designation: *Rupirana cardosoi* Heyer, 1999 Brazil (Bahia).
Rupirana cardosoi Heyer, 1999. – Brazil (Bahia).

Subfamilia *Hylodinae* Gunther, 1858

Hylodes amnicola Pombal, Feio & Haddad, 2002. – Brazil (Minas Gerais).
Hylodes dactylocinus Pavan, Narvaes & Rodrigues, 2001. Brazil (São Paulo).
Hylodes uai Nascimento, Pombal & Haddad, 2001. – Brazil (Minas Gerais)
Megaelosia boticariana Giaretta & Aguiar, 1998. – Brazil (São Paulo).

Subfamilia *Leptodactylinae* Werner, 1896 (1838)

Adenomera araucaria Kwet, 2003. – Brazil (Rio Grande do Sul).
Physalaemus maximus Feio, Pombal & Caramaschi, 1999. Brazil (Minas Gerais).
Pseudopaludicola mirandae Mercadal de Barrio & Barrio, 1994. – Argentina.
Pseudopaludicola riopiedadensis Mercadal de Barrio & Barrio, 1994. Brazil (São Paulo).

Subfamilia *Odontophryninae* Lynch, 1969

Odontophrynus cordobae Martino & Sinsch, 2002. – Argentina
Proceratophrys brauni Kwet & Faivovich, 2001. – Brazil (Rio Grande do Sul).
Proceratophrys concavitympanum Giaretta, Bernarde & Kokubum, 2000 Brazil (Rondonia)
Proceratophrys cururu Eterovick & Sazima, 1998. – Brazil (Minas Gerais).

Subfamilia *Telmatobiinae* Fitzinger, 1843

Alsodes australis Formas, Ubeda, Cuevas & Nuñez, 1998. – Chile.
Alsodes hugoi Cuevas & Formas, 2001. – Chile.
Alsodes kaweshkari Formas, Cuevas & Nuñez, 1998. – Chile.
Alsodes valdiviensis Formas, Cuevas & Brieva, 2002. – Chile.

Atelognathus ceii Basso, 1998. – Chile.
Telmatobius dankoi Formas, Northland, Capetillo, Nuñez, Cuevas & Brieva, 1999. – Chile.
Telmatobius fronteriensis Benavides, Ortiz & Formas, 2002. – Chile.
Telmatobius huayra Lavilla & Ergueta, 1995. – Bolivia.
Telmatobius ifornoi Lavilla & Ergueta Sandoval, 1999. – Bolivia.
Telmatobius philippii Cuevas, 2002. – Chile.

Familia *MYOBATRACHIDAE* Schlegel, 1850

Subfamilia *LIMNODYNASTINAE* Lynch, 1969

Neobatrachus albipes Roberts, Mahony, Kendrick & Majors, 1991. – Australia (Western Australia)

Superfamilia *RANOIDEA* Rafinesque-Schmaltz, 1814

Familia *BREVICIPITIDAE* Bonaparte, 1850

Subfamilia *ASTYLOSTERNINAE* Noble, 1927

Leptodactylodon blanci Ohler, 1999. – Gabon.
Leptodactylodon wildi Amiet & Dowsett-Lemaire, 2000. – Cameroon.

Subfamilia *HEMISOTINAE* Cope, 1867

Hemisus barotseensis Channing & Broadley, 2002. – Zambia.

Subfamilia *HYPEROLIINAE* Laurent, 1943

Tribus *HYPEROLIINI* Laurent, 1943

Alexteroon hypsiphonus Amiet, 2000 – Cameroon
Alexteroon jynx Amiet, 2000. - Cameroon.
Heterixalus carbonei Vences, Glaw, Jesu & Schimmenti, 2000. – Madagascar
Hyperolius kihangensis Schiøtz & Westergaard *in* SCHIØTZ, 1999 – Tanzania. – **Comment**: Species redescribed in detail by SCHIØTZ & WESTERGAARD (2000).
Hyperolius nienokouensis Rödel, 1999. – Ivory Coast.
Hyperolius pseudargus Schiøtz & Westergaard *in* SCHIØTZ, 1999 – Tanzania. – **Comment**: Species redescribed in detail by SCHIØTZ & WESTERGAARD (2000)

Tribus *KASSININI* Laurent, 1972

Kassina schioetzi Rödel, Grafe, Rudolf & Ernst, 2002. – Ivory Coast

Subfamilia *LEPTOPELINAE* Laurent, 1972

Leptopelis zebra Amiet, 2001. – Cameroon

Familia *Microhylidae* Günther, 1858 (1843)

Subfamilia *Asterophryinae* Günther, 1858

Tribus *Asterophryini* Günther, 1858

Hylophorbus nigrinus Günther, 2001. – Indonesia (Irian Jaya).
Hylophorbus picoides Günther, 2001. – Indonesia (Irian Jaya).
Hylophorbus richardsi Günther, 2001. – Papua New Guinea.
Hylophorbus sextus Günther, 2001. – Indonesia (Irian Jaya).
Hylophorbus tetraphonus Günther, 2001. – Indonesia (Irian Jaya).
Hylophorbus wondiwoi Günther, 2001. – Indonesia (Irian Jaya).

Tribus *Xenorhinini* Mivart, 1869

Xenobatrachus zweifeli Kraus & Allison, 2002. – Papua New Guinea.
Xenorhina arboricola Allison & Kraus, 2000. – Papua New Guinea.

Subfamilia *Cophylinae* Cope, 1889

Stumpffia helenae Vallan, 2000. – Madagascar

Subfamilia *Genyophryninae* Boulenger, 1890

Albericus brunhildae Menzies, 1999. – Papua New Guinea.
Albericus fafniri Menzies, 1999. – Papua New Guinea.
Albericus gudrunae Menzies, 1999. – Papua New Guinea
Albericus gunnari Menzies, 1999. – Papua New Guinea
Albericus laurini Günther, 2000. – Indonesia (Irian Jaya).
Albericus rhenaurum Menzies, 1999. – Papua New Guinea.
Albericus siegfriedi Menzies, 1999. – Papua New Guinea.
Albericus swanhildae Menzies, 1999. – Papua New Guinea
Albericus valkuriarum Menzies, 1999. – Papua New Guinea.
Austrochaperina adamantina Zweifel, 2000. – Papua New Guinea.
Austrochaperina aquilonia Zweifel, 2000. – Papua New Guinea.
Austrochaperina archboldi Zweifel, 2000. – Papua New Guinea
Austrochaperina blumi Zweifel, 2000. – Indonesia (Irian Jaya)
Austrochaperina derongo Zweifel, 2000. – Papua New Guinea
Austrochaperina guttata Zweifel, 2000. – Papua New Guinea.
Austrochaperina kosarek Zweifel, 2000. – Indonesia (Irian Jaya).
Austrochaperina novaebritanniae Zweifel, 2000. – Papua New Guinea
Austrochaperina parkeri Zweifel, 2000. – Papua New Guinea.
Austrochaperina rivularis, Zweifel, 2000. – Papua New Guinea.
Austrochaperina yelaensis Zweifel, 2000. – Papua New Guinea.
Choerophryne longirostris Kraus & Allison, 2001. – Papua New Guinea.
Cophixalus bewaniensis Kraus & Allison, 2000. – Papua New Guinea

Cophixalus pulchellus Kraus & Allison, 2000. – Papua New Guinea.
Cophixalus variegatus Richards, Johnston & Burton, 1992. – Papua New Guinea.
Cophixalus zweifeli Davies & McDonald, 1998. – Australia (Queensland).
Copiula expectata Günther, 2002*b*. – Indonesia (Irian Jaya).
Copiula major Günther, 2002*a*. – Indonesia (Irian Jaya).
Copiula obsti Günther, 2002*a*. – Indonesia (Irian Jaya)
Liophryne allisoni Zweifel, 2000. – Papua New Guinea.
Liophryne rubra Zweifel, 2000. – Papua New Guinea
Liophryne similis Zweifel, 2000. – Papua New Guinea
Oreophryne atrigularis Günther, Richards & Iskandar, 2001. – Indonesia (Irian Jaya).
Oreophryne minuta Richards & Iskandar, 2000. – Indonesia (Irian Jaya).
Oreophryne wapoga Günther, Richards & Iskandar, 2001. – Indonesia (Irian Jaya)
Oxydactyla alpestris Zweifel, 2000. – Papua New Guinea.
Oxydactyla coggeri Zweifel, 2000. – Papua New Guinea
Oxydactyla stenodactyla Zweifel, 2000. – Papua New Guinea.

Subfamilia *MICROHYLINAE* Günther, 1858 (1843)

Tribus *GASTROPHRYNINI* Fitzinger, 1843

Chiasmocleis alagoanus Cruz, Caramaschi & Freire, 1999. – Brazil (Alagoas).
Chiasmocleis jimi Caramaschi & Cruz, 2001. – Brazil (Amazonas).
Elachistocleis erythrogaster Kwet & Di-Bernardo, 1998. – Brazil (Rio Grande do Sul)
Otophryne pyburni Campbell & Clarke, 1998. – Colombia.

Tribus *MICROHYLINI* Günther, 1858 (1843)

Kalophrynus orangensis Dutta, Ahmed & Das, 2000. – India (Assam).
Kaloula walteri Diesmos, Brown & Alcala, 2002. – Philippines (Luzon).
Microhyla sholigari Dutta & Ray, 2000. – India (Karnataka).
Ramanella nagaoi Manamendra-Arachchi & Pethiyagoda, 2001*a*. – Sri Lanka.

Familia *RANIDAE* Rafinesque-Schmaltz, 1814

Subfamilia *CERATOBATRACHINAE* Boulenger, 1884

Platymantis banahao Brown, Alcala, Diesmos & Alcala, 1997 – Philippines (Luzon)
Platymantis bimaculata Günther, 1999. – Indonesia (Irian Jaya)
Platymantis browni Allison & Kraus, 2001 – Papua New Guinea.
Platymantis cagayanensis Brown, Alcala & Diesmos, 1999. – Philippines (Luzon).
Platymantis cryptotis Günther, 1999. – Indonesia (Irian Jaya).
Platymantis indeprensus Brown, Alcala & Diesmos, 1999. – Philippines (Luzon).
Platymantis isarog Brown, Brown, Alcala & Frost, 1997. – Philippines (Luzon). **Comment** Nomen novum pro *Platymantis reticulatus* Brown, Brown & Alcala, 1997 [nec *Platymantis reticulatus* Zhao & Li, 1984]
Platymantis luzonensis Brown, Alcala, Diesmos & Alcala, 1997 – Philippines (Luzon)
† *Platymantis megabotoniviti* Worthy, 2001. – Fiji. Quaternary.

Platymantis naomii Alcala, Brown & Diesmos, 1998. – Philippines (Luzon). **Comment**: Although this species was dedicated to a woman (Naomi Alcala), according to Art. 31.1.1 of the *Code* its nomen does not have to be emended for reasons explained by CROCHET & DUBOIS (2004: 496).

Platymantis negrosensis Brown, Alcala, Diesmos & Alcala, 1997. – Philippines (Negros).

Platymantis pseudodorsalis Brown, Alcala & Diesmos, 1999. – Philippines (Luzon).

Platymantis pygmaeus Alcala, Brown & Diesmos, 1998. – Philippines (Luzon).

Platymantis rabori Brown, Alcala, Diesmos & Alcala, 1997. – Philippines (Bohol).

Platymantis sierramadrensis Brown, Alcala, Ong & Diesmos, 1999. – Philippines (Luzon).

Platymantis taylori Brown, Alcala & Diesmos, 1999. – Philippines (Luzon).

Subfamilia *DICROGLOSSINAE* Anderson, 1871

Tribus *DICROGLOSSINI* Anderson, 1871

Fejervarya iskandari Veith, Kosuch, Ohler & Dubois, 2001. – Indonesia (Java).

Minervarya Dubois, Ohler & Biju, 2001. **Type-species**, by original designation: *Minervarya sahyadris* Dubois, Ohler & Biju, 2001. – India (Karnataka).

Minervarya sahyadris Dubois, Ohler & Biju, 2001. – India (Karnataka).

Tigrina Fei, Ye & Huang, 1991 [nec *Tigrina* Greve, 1894]. **Type-species**, by original designation: *Rana tigerina* Daudin, 1802. – India (West Bengal).

Tomopterna maskeyi Schleich & Anders, 1998. – Nepal. – **Comment**: The nomen *Tomopterna* is now applied only to an African genus referred to the *PYXICEPHALINAE* (DUBOIS, 2003, 2005*a*); the Asian species formerly placed in this genus are now referred to the genus *Sphaerotheca*, which is related with *Feyervarya* (VENCES et al., 2000) and therefore considered a member of the *DICROGLOSSINI* (DUBOIS, 2003).

Tribus *LIMNONECTINI* Dubois, 1992

Limnonectes fujianensis Ye & Fei *in* YE, FEI & HU, 1993. – China (Fujian). **Comment**: Species redescribed as new by YE & FEI (1994*b*), with the same nomen and authors (see YE, FEI & HU, 1993: 370), but nomen is available as from YE, FEI & HU (1993: 113). Not being mentioned in the original publication of the nomen, the "holotype" designated by YE & FEI (1994*b*: 494, 4995) is in fact the lectotype of this nominal species.

Liurana alpinus Huang & Ye, 1997. – China (Xizang).

Liurana medogensis Fei, Ye & Huang, 1997. – China (Xizang).

Rana charlesdarwini Das, 1998*a*. – India (Andamans & Nicobars). **Comment**: This species with forked omosternum is clearly not a member of the genus *Rana*, let alone of the *RANINAE*; pending examination of specimens, it is here referred to the *LIMNONECTINI*, without generic allocation [Alain DUBOIS].

Tribus *PAINI* Dubois, 1992

Paa (Feirana) taihangnicus Chen & Jiang, 2002. – China (Henan). **Comment**: The original spelling of the epithet of this new species is incorrect and should be emended into *taihangnica* according to Art. 31.2 of the *Code*, a justified emendation which was first used by JIANG et al. (2005).

Paa (Feirana) yei Chen, Qu & Jiang, 2002. – China (Henan). **Comments**: (1) Species redescribed as new, with the same nomen, authors and holotype, in CHEN, JIANG & QU (2004), but nomen is

available as from CHEN, QU & JIANG (2002). (2) Although this species was dedicated to a woman (Ye Changyuan), according to Art 31 1 1 of the *Code* its nomen does not have to be emended for reasons explained by CROCHET & DUBOIS (2004: 496)

Paa (Paa) medogensis Fei & Ye, 2001*b*. – China (Xizang).

Paa (Paa) rarica Dubois, Matsui & Ohler, 2001. Nepal. **Comment**: Nomen novum pro *Rana (Paa) rara* Dubois & Matsui, 1983 [nec *Rana danubina* var. *rara* Fraas, 1903].

Rana robertingeri Wu & Zhao, 1995. China (Sichuan). **Comment** Referred to the genus *Paa* by JIANG & ZHOU (2005) and to the genus *Quasipaa* by JIANG et al. (2005).

Scutiger mokokchungensis Das & Chanda, 2000 - India (Nagaland) **Comment**: Referred to the genus *Paa* by DUBOIS (2002).

Unculuana Fei, Ye & Huang, 1991. **Type-species**, by original designation· *Rana unculuana* Liu, Hu & Yang, 1960. – China (Yunnan) **Comment**· Created as a subgenus of *Paa* Dubois, 1975.

Subfamilia *LANKANECTINAE* Dubois & Ohler, 2001

Lankanectes Dubois & Ohler, 2001. **Type-species**, by original designation: *Rana corrugata* Peters, 1863. – Sri Lanka.

Subfamilia *MANTELLINAE* Laurent, 1946

Tribus *BOOPHINI* Vences & Glaw, 2001

Boophis bottae Vences & Glaw, 2002. – Madagascar.
Boophis jeonnyala Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.
Boophis haematopus Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.
Boophis lichenoides Vallan, Glaw, Andreone & Cadle 1998. – Madagascar.
Boophis picturatus Glaw, Vences, Andreone & Vallan, 2001. Madagascar.
Boophis pyrrhus Glaw, Vences, Andreone & Vallan, 2001. – Madagascar
Boophis schuboeae Glaw & Vences, 2002*b*. – Madagascar.
Boophis tasymena Vences & Glaw, 2002. – Madagascar.
Boophis vittatus Glaw, Vences, Andreone & Vallan, 2001. – Madagascar.

Tribus *LALIOSTOMINI* Vences & Glaw, 2001

Aglyptodactylus laticeps Glaw, Vences & Bohme, 1998. – Madagascar
Aglyptodactylus securifer Glaw, Vences & Bohme, 1998. – Madagascar

Laliostoma Glaw, Vences & Bohme, 1998 **Type-species**, by original designation *Tomopterna labrosa* Cope, 1868 Madagascar **Comment** Created as a subgenus of *Tomopterna* Duméril & Bibron, 1841

Tribus *MANTELLINI* Laurent, 1946

Chonomantis Glaw & Vences, 1994 **Type-species**, by original designation *Rana albofrenata* Muller, 1892 Madagascar **Comment**· Created as a subgenus of *Mantidactylus* Boulenger, 1895

Mantella aurantiaca milotympanum Staniszewski, 1996. – Madagascar

Mantella aurantiaca rubra Staniszewski, 1996. – Madagascar.
Mantella manery Vences, Glaw & Bohme, 1999. – Madagascar
Mantidactylus ambohitra Vences & Glaw, 2001*b*. – Madagascar.
Mantidactylus brunae Andreone, Glaw, Vences & Vallan, 1998. – Madagascar.
Mantidactylus enki Glaw & Vences, 2002*c*. – Madagascar.
Mantidactylus kathrinae Glaw, Vences & Gossmann, 2000. – Madagascar.
Mantidactylus madinika Vences, Andreone, Glaw & Mattioli, 2002. – Madagascar
Mantidactylus moseri Glaw & Vences, 2002*d*. – Madagascar.
Mantidactylus sarotra Glaw & Vences, 2002*a*. – Madagascar.
Mantidactylus schilfi Glaw & Vences, 2000. – Madagascar.
Mantidactylus striatus Vences, Glaw, Andreone, Jesu & Schimmenti, 2002. – Madagascar.
Mantidactylus tandroka Glaw & Vences, 2001. – Madagascar.
Mantidactylus tschenki Glaw & Vences, 2001. – Madagascar.

Ochthomantis Glaw & Vences, 1994 – **Type-species**, by original designation: *Rana femoralis* Boulenger, 1882. – Madagascar. **Comment**: Created as a subgenus of *Mantidactylus* Boulenger, 1895.

Pandanusicola Glaw & Vences, 1994 – **Type-species**, by original designation: *Rhacophorus bicalcaratus* Boettger, 1913. – Madagascar. **Comment**: Created as a subgenus of *Mantidactylus* Boulenger, 1895.

Phylacomantis Glaw & Vences, 1994 – **Type-species**, by original designation: *Mantidactylus corvus* Glaw & Vences, 1994. – Madagascar. **Comment**: Created as a subgenus of *Mantidactylus* Boulenger, 1895.

Subfamilia *Micrixalinae* Dubois, Ohler & Biju, 2001

Micrixalus gadgili Pillai & Pattabiraman, 1990. – India (Kerala).

Subfamilia *Nyctibatrachinae* Blommers-Schlösser, 1993

Nyctibatrachus hussaini Krishnamurthy, Reddy & Gururaja, 2001. – India (Karnataka).

Subfamilia *Petropedetinae* Noble, 1931

Arthroleptides yakusini Channing, Moyer & Howell, 2002. – Tanzania.

Subfamilia *Phrynobatrachinae* Laurent, 1941

Phrynobatrachus inexpectatus Largen, 2001. – Ethiopia.
Phrynobatrachus irangi Drewes & Perret, 2000. – Kenya.
Phrynobatrachus phyllophilus Rödel & Ernst, 2002. – Ivory Coast.

Subfamilia *Ptychadeninae* Dubois, 1987

Ptychadena filwoha Largen, 1997. – Ethiopia.
Ptychadena harenna Largen, 1997. – Ethiopia.
Ptychadena wadei Largen, 2000. – Ethiopia.

Subfamilia *PYXICEPHALINAE* Bonaparte, 1850

Arthroleptella drewesii Channing, Hendricks & Dawood, 1994. – South Africa.
Arthroleptella landdrosia Dawood & Channing, 2000. – South Africa
Cacosternum karooicum Boycott, de Villiers & Scott, 2002. – South Africa
Strongylopus kitumbeine Channing & Davenport, 2002. - Tanzania.
Tomopterna damarensis Dawood & Channing, 2002. – Namibia.

Subfamilia *RANINAE* Rafinesque-Schmaltz, 1814

Tribus *RANINI* Rafinesque-Schmaltz, 1814

Amolops bellulus Liu, Yang, Ferraris & Matsui, 2000. – China (Yunnan).
Amolops chakrataensis Ray, 1999. – India (Uttar Pradesh).
Amolops cremnobatus Inger & Kottelat, 1998. – Laos.
Amolops jaunsari Ray, 1999. – India (Uttar Pradesh).
Amolops mengyangensis Wu & Tian, 1995. – China (Yunnan).
Amolops spinapectoralis Inger, Orlov & Darevsky, 1999. – Vietnam.
Amolops tuberodepressus Liu & Yang, 2000. – China (Yunnan).
Amolops (Huia) modiglianii Doria, Salvidio & Tavano, 2001 – Indonesia (Sumatra)
Odorrana exiliversabilis Fei, Ye & Li, 2001*b*. China (Fujian).
Odorrana hainanensis Fei, Ye & Li, 2001*a*. China (Hainan).
Odorrana jingdongensis Fei, Ye & Li, 2001*a*. – China (Yunnan)
Odorrana junlianensis Huang, Fei & Ye *in* FEI & YE, 2001*a*. – China (Sichuan).
Odorrana nasuta Fei, Ye & Li, 2001*b*. China (Hainan).
"***Pseudoamolops***" Jiang, Fei, Ye, Zeng, Zhen, Xie & Chen, 1997. - Taiwan. **Comments** (1) Created as a subgenus of *Amolops* Cope, 1865 (2) Nomenclaturally unavailable genus-series nomen, as published without designation of a type-species.
Pseudoamolops Fei, Ye & Jiang, 2000 **Type-species**, by original designation: *Rana sauteri* Boulenger, 1909. – Taiwan.
Rana attigua Inger, Orlov & Darevsky, 1999. – Vietnam.
Rana balcanica Schneider & Sinsch, 1992 [nec *Rana balcanica* Schneider, Sinsch & Sofianidou, 1993] Greece. - **Comment**: See DUBOIS & OHLER (1995).
Rana bannanica Rao & Yang, 1997*c* – China (Yunnan).
Rana chitwanensis Das, 1998*b* – Nepal.
Rana dhakuriensis Ray, 1997. India (Uttar Pradesh)
Rana epeirotica Schneider, Sofianidou & Kyriakopoulou-Sklavounou, 1984. Greece
Rana huanrenensis Liu, Zhang & Liu, 1993 China (Liaoning). **Comment** As noted by DUELLMAN (1993 262), the nomen of this species was made available by its publication in a key in FEI, YE & HUANG (1991: 131) The nomen *Rana huanrenensis* introduced by LIU, ZHANG & LIU (1993) in their formal description of the species can be regarded either as a brand new nomen or as an unjustified emendation of *Rana huanrensis* Fei, Ye & Huang, 1991 (see below) In both cases it is a distinct available nomen and an invalid junior synonym of the latter nomen
Rana huanrensis Fei, Ye & Huang, 1991 China (Liaoning) **Comment** The original spelling *huanrensis* appears three times in the original publication (FEI, YE & HUANG, 1991: 131, 298, 347), so it cannot be considered an "inadvertent error", and it does not have to be corrected because of so-called "incorrect latinization" as the latter is not a case of "incorrect original spelling" according to the *Code* (ANONYMOUS, 1999: Art. 32.5).

Rana kunyuensis Lu & Li, 2002. – China (Shandong).
Rana lessonae bergeri Günther, 1985. – Italy.
Rana lini Chou, 1999. – China (Yunnan).
Rana mangyanum Brown & Guttman, 2002. – Philippines (Mindoro).
Rana multidenticulata Chou & Lin, 1997. Taiwan **Comments**: (1) Nomen mispelled *Rana multidentata* in GLAW et al (1998 xxii) (2) Species referred to the genus *Pseudoamolops* by FEI, YE & JIANG (2000).
Rana omeimontis Ye & Fei *in* YE, FEI & HU, 1993. – China (Sichuan)
Rana osca Paolucci, Fuhn & Bruno, 1993. – Italy.
Rana ridibunda caralitana Arikan, 1988. – Turkey.
Rana tipanan Brown, McGuire & Diesmos, 2000. – Philippines (Luzon).
Rana zhengi Zhao, 1999. – China (Sichuan)
Rana zhenhaiensis Ye, Fei & Matsui, 1995. – China (Zhejiang).
Rana (Sylvirana) faber Ohler, Swan & Daltry, 2002. – Cambodia
Tenuirana Fei, Ye & Huang, 1991. **Type-species**, by original designation: *Rana taipehensis* Van Denburgh, 1909. - Taiwan – **Comment** Created as a subgenus of *Hylarana* Tschudi, 1838

Subfamilia *RHACOPHORINAE* Hoffman, 1932 (1858)

Tribus *PHILAUTINI* Dubois, 1981

Kurixalus Fei, Ye & Dubois in FEI, 1999. **Type-species**, by original designation: *Rana eiffingeri* Boettger, 1895. – Japan.
Philautus abditus Inger, Orlov & Darevsky, 1999. – Vietnam.
Philautus cardamonus Ohler, Swan & Daltry, 2002. – Cambodia.
Philautus erythrophthalmus Stuebing & Wong, 2000. – Malaysia (Sabah).
Philautus griet Bossuyt, 2002. – India (Kerala).
Philautus odontotarsus Ye & Fei *in* YE, FEI & HU, 1993. – China (Yunnan)
Philautus terebrans Das & Chanda, 1998. – India (Andhra Pradesh).

Tribus *RHACOPHORINI* Hoffman, 1932 (1858)

Chirixalus dudhwaensis Ray, 1999. – India (Uttar Pradesh).
Polypedates fastigo Manamendra-Arachchi & Pethiyagoda, 2001*b*. – Sri Lanka.
Polypedates pingbianensis Kou, Hu & Gao, 2001. – China (Yunnan).
Polypedates pseudocruciger Das & Ravichandran, 1998 – India (Tamil Nadu)
Polypedates puerensis He, 1999. – China (Yunnan).
Rhacophorus achantharrhena Harvey, Pemberton & Smith, 2002 Indonesia (Sumatra)
Rhacophorus baliogaster Inger, Orlov & Darevsky, 1999. – Vietnam.
Rhacophorus barisani Harvey, Pemberton & Smith, 2002. – Indonesia (Sumatra).
Rhacophorus catamitus Harvey, Pemberton & Smith, 2002. – Indonesia (Sumatra).
Rhacophorus cyanopunctatus Manthey & Steiof, 1998. – Thailand.
Rhacophorus duboisi Ohler, Marquis, Swan & Grosjean, 2000. – Vietnam
Rhacophorus exechopygus Inger, Orlov & Darevsky, 1999. - Vietnam.
Rhacophorus hoanglienensis Orlov, Lathrop, Murphy & Cuc, 2001 – Vietnam
Rhacophorus orlovi Ziegler & Kohler, 2001. – Vietnam.
Rhacophorus pseudomalabaricus Vasudevan & Dutta, 2000. – India (Tamil Nadu)

Superfamilia SOOGLOSSOIDEA Noble, 1931

Familia SOOGLOSSIDAE Noble, 1931

Sooglossus pipilodryas Gerlach & Willi, 2002. – Seychelles.

Ordo URODELA Duméril, 1806

Incertae sedis

† ***Apricosiren*** Evans & McGowan, 2002. – **Type-species**, by original designation: † *Apricosiren ensomi* Evans & McGowan, 2002. – England. Cretaceous.

† *Apricosiren ensomi* Evans & McGowan, 2002. – England. Cretaceous.

† ***Bishara*** Nessov, 1997. - **Type-species**, by original designation: *Bishara backa* Nessov, 1997. – Kazakhstan. Cretaceous.

† *Bishara backa* Nessov, 1997. – Kazakhstan. Cretaceous.

† ***Galverpeton*** Estes & Sanchiz, 1982. – **Type-species**, by original designation: † *Galverpeton ibericum* Estes & Sanchiz, 1982. – Spain. Cretaceous.

† *Galverpeton ibericum* Estes & Sanchiz, 1982. – Spain. Cretaceous.

† ***Jeholotriton*** Wang, 2000. – **Type-species**, by original designation: † *Jeholotriton paradoxus* Wang, 2000. – China (Nei Mongol). Cretaceous.

† *Jeholotriton paradoxus* Wang, 2000. – China (Nei Mongol). Cretaceous.

† ***Kiyatriton*** Averianov & Voronkevich, 2002. – **Type-species**, by original designation: † *Kiyatriton leshchinskiyi* Averianov & Voronkevich, 2002. – Russia. Cretaceous.

† *Kiyatriton leshchinskiyi* Averianov & Voronkevich, 2002. – Russia. Cretaceous.

† ***Laccotriton*** Gao, Cheng & Xu, 1998. – **Type-species**, by original designation: † *Laccotriton subsolanus* Gao et al., 1998. – China (Hebei). Mesozoic.

† *Laccotriton subsolanus* Gao, Cheng & Xu, 1998. – China (Hebei). Mesozoic.

† ***Sinerpeton*** Gao & Shubin, 2001. – **Type-species**, by original designation: † *Sinerpeton fengshanensis* Gao & Shubin, 2001. – China (Hebei). Jurassic.

† *Sinerpeton fengshanensis* Gao & Shubin, 2001. – China (Hebei). Jurassic.

Familia † BATRACHOSAUROIDIDAE Auffenberg, 1958

† ***Mynbulakia*** Nessov, 1981. – **Type-species**, by original designation: † *Mynbulakia surgayi* Nessov, 1981. - Uzbekistan. Cretaceous.

† *Mynbulakia nongratis* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Mynbulakia surgayi* Nessov, 1981. – Uzbekistan. Cretaceous.

† ***Parrisia*** Denton & O'Neill, 1998. – **Type-species**, by original designation: † *Parrisia neocesariensis* Denton & O'Neill, 1998. – USA (New Jersey). Cretaceous.

† *Parrisia neocesariensis* Denton & O'Neill, 1998. – USA (New Jersey). Cretaceous.

† ***Peratosauroides*** Naylor, 1983. – **Type-species**, by original designation: † *Peratosauroides problematica* Naylor, 1983. – USA (California). Miocene.

† *Peratosauroides problematica* Naylor, 1983. – USA (California). Miocene.

Familia † SCAPHERPETONTIDAE Auffenberg & Goin, 1959

† ***Eoscapherpeton*** Nessov, 1981. – **Type-species**, by original designation: † *Eoscapherpeton asiaticum* Nessov, 1981. – Uzbekistan. Cretaceous.

† *Eoscapherpeton asiaticum* Nessov, 1981. – Uzbekistan. Cretaceous.
† *Eoscapherpeton superum* Nessov, 1997. – Tajikistan. Cretaceous.
†***Horezmia*** Nessov, 1981. **Type-species**, by original designation † *Horezmia gracile* Nessov, 1981 – Uzbekistan. Cretaceous.
† *Horezmia gracile* Nessov, 1981. – Uzbekistan. Cretaceous

Epifamilia *Cryptobranchoidia* Fitzinger, 1826

Superfamilia *Cryptobranchoidea* Fitzinger, 1826

Familia *Cryptobranchidae* Fitzinger, 1826

† *Andrias karelcapeki* Ckhikvadze, 1982. – Kazakhstan. Miocene
† ***Aviturus*** Gubin, 1991. **Type-species**, by original designation: † *Aviturus exsecratus* Gubin, 1991. – Mongolia. Paleocene.
† *Aviturus exsecratus* Gubin, 1991. – Mongolia. Paleocene.
† ***Ulanurus*** Gubin, 1991. **Type-species**, by original designation: † *Ulanurus fractus* Gubin, 1991. – Mongolia Paleocene.
† *Ulanurus fractus* Gubin, 1991. – Mongolia. Paleocene.

Familia *Hynobiidae* Cope, 1859 (1856)

Subfamilia *Hynobiinae* Cope, 1859 (1856)

Batrachuperus taibaiensis Song, Zeng, Wu, Liu & Fu, 2001. – China (Shaanxi).
Hynobius amjiensis Gu, 1992. – China (Zhejiang).
Hynobius yunanicus Chen, Qu & Niu, 2001. – China (Henan).
† ***Liaoxitriton*** Dong & Wang, 1998. **Type-species**, by original designation: † *Liaoxitriton zhongjiani* Dong & Wang, 1998 – China (Liaoning) Cretaceous
† *Liaoxitriton zhongjiani* Dong & Wang, 1998. – China (Liaoning). Cretaceous.
† ***Parahynobius*** Venczel, 1999 **Type-species**, by original designation: † *Parahynobius betfianus* Venczel, 1999 – Romania. Pleistocene.
† *Parahynobius betfianus* Venczel, 1999. Romania. Pleistocene.
† *Parahynobius kordosi* Venczel, 1999. – Hungary. Miocene.
Pseudohynobius shuichengensis Tian, Gu, Sun & Li, 1998 China (Guizhou). **Comment** This new nomen appears under three different spellings in the original publication *shuichengensis* (twice in p 7, twice in p 12, once in p 13), *xuichengensis* (once in p 11) and *suichenensis* (once in p 12) These spellings are "multiple original spellings" according to the *Code* Acting as first revisers, we hereby choose the spelling *shuichengensis* as "correct original spelling" of this nomen

Subfamilia *Protohynobiinae* Fei & Ye, 2000

Protohynobius Fei & Ye, 2000*a* **Type-species**, by original designation *Protohynobius puxiongensis* Fei & Ye, 2000. – China (Sichuan).
Protohynobius puxiongensis Fei & Ye, 2000*a*. – China (Sichuan).

Epifamilia † *KARAUROIDIA* Ivachnenko, 1978

Superfamilia † *KARAUROIDEA* Ivachnenko, 1978

Familia † *KARAURIDAE* Ivachnenko, 1978

† ***Kokartus*** Nessov, 1988. **Type-species**, by original designation † *Kokartus honorarius* Nessov, 1988. – Kirgiztan. Jurassic.
† *Kokartus honorarius* Nessov, 1988. – Kirgiztan. Jurassic.

Epifamilia *SALAMANDROIDIA* Goldfuss, 1820

Incertae sedis

† ***Valdotriton*** Evans & Milner, 1996. **Type-species**, by original designation. † *Valdotriton gracilis* Evans & Milner, 1996. – Spain. Cretaceous.
† *Valdotriton gracilis* Evans & Milner, 1996 – Spain. Cretaceous.

Superfamilia *AMBYSTOMATOIDEA* Gray, 1850

Familia *AMBYSTOMATIDAE* Gray, 1850

Familia *DICAMPTODONTIDAE* Tihen, 1958

† *Dicamptodon antiquus* Naylor & Fox, 1993. – Canada (Alberta). Paleocene.

Superfamilia *AMPHIUMOIDEA* Gray, 1825

Familia *AMPHIUMIDAE* Gray, 1825

† ***Paleoamphiuma*** Rieppel & Grande, 1998 **Type-species**, by original designation: † *Paleoamphiuma tetradactylum* Rieppel & Grande, 1998. USA (Wyoming). Eocene.
† *Paleoamphiuma tetradactylum* Rieppel & Grande, 1998 USA (Wyoming) Eocene.

Familia *PLETHODONTIDAE* Gray, 1850

Subfamily *HEMIDACTYLIINAE* Hallowell, 1856 (1850)

Tribus *BOLITOGLOSSINI* Hallowell, 1856

Batrachoseps diabolicus Jockusch, Wake & Yanev, 1998. – USA (California).
Batrachoseps gavilanensis Jockusch, Yanev & Wake, 2001. – USA (California).
Batrachoseps gregarius Jockusch, Wake & Yanev, 1998 – USA (California).
Batrachoseps incognitus Jockusch, Yanev & Wake, 2001. – USA (California)
Batrachoseps kawia Jockusch, Wake & Yanev, 1998. - USA (California).
Batrachoseps luciae Jockusch, Yanev & Wake, 2001. – USA (California).
Batrachoseps minor Jockusch, Yanev & Wake, 2001. – USA (California)

Batrachoseps regius Jockusch, Wake & Yanev, 1998. – USA (California).
Batrachoseps robustus Wake, Yanev & Hansen, 2002. – USA (California).
Bolitoglossa anthracina Brame, Savage, Wake & Hanken, 2001. – Panama.
Bolitoglossa decora McCranie & Wilson, 1997. – Honduras.
Bolitoglossa guaramacalensis Schargel, García-Perez & Smith, 2002. – Venezuela
Bolitoglossa hiemalis Lynch, 2001*a*. – Colombia
Bolitoglossa lozanoi Acosta-Galvis & Restrepo, 2001. – Colombia.
Bolitoglossa mombachoensis Kohler & McCranie, 1999. – Nicaragua.
Bolitoglossa oaxacensis Parra-Olea, García-París & Wake, 2002. – Mexico
Bolitoglossa spongai Barrio Amorós & Fuentes Ramos, 2001. – Venezuela.
Bolitoglossa synoria McCranie & Köhler, 1999*a*. – Honduras.
Bolitoglossa zapoteca Parra-Olea, García-París & Wake, 2002. – Mexico.
Cryptotriton García París & Wake, 2000. - **Type-species**, by original designation: *Oedipus nasalis* Dunn, 1924. – Honduras.
Lineatriton orchileucos Brodie, Mendelson & Campbell, 2002. – Mexico.
Lineatriton orchimelas Brodie, Mendelson & Campbell, 2002. – Mexico.
Nototriton brodiei Campbell & Smith, 1998. – Guatemala.
Nototriton gamezi García-París & Wake, 2000. – Costa Rica.
Nototriton lignicola McCranie & Wilson, 1997. - Honduras.
Nototriton limnospectator McCranie, Wilson & Polisar, 1998. – Honduras
Nototriton monzoni Campbell & Smith, 1998 – Guatemala.
Nototriton saslaya Köhler, 2002. – Nicaragua.
Nototriton stuarti Wake & Campbell, 2000. - Guatemala.
Nototriton wakei Campbell & Smith, 1998. – Guatemala
Oedipina maritima García-París & Wake, 2000. – Panama
Oedipina savagei García-París & Wake, 2000. – Costa Rica.
"*Pseudoeurycea amuzga*" Perez-Ramos & Saldana de la Riva, 2000 Mexico - **Comment** Nomenclaturally unavailable nomen, as having not been published on a "permanent support". Nomen made nomenclaturally available in Perez-Ramos & Saldana de la Riva (2003)
Pseudoeurycea aquatica Wake & Campbell, 2001. – Mexico.
Pseudoeurycea lynchi Parra-Olea, Papenfuss & Wake, 2001. – Mexico.
Pseudoeurycea naucampatepetl Parra-Olea, Papenfuss & Wake, 2001. – Mexico
Thorius grandis Hanken, Wake & Freeman, 1999 – Mexico
Thorius infernalis Hanken, Wake & Freeman, 1999. - Mexico.
Thorius lunaris Hanken & Wake 1998. – Mexico.
Thorius magnipes Hanken & Wake 1998. – Mexico.
Thorius minydemus Hanken & Wake 1998 – Mexico
Thorius munificus Hanken & Wake 1998. – Mexico.
Thorius omiltemi Hanken, Wake & Freeman, 1999. - Mexico.
Thorius papaloae Hanken & Wake, 2001. - Mexico.
Thorius spilogaster Hanken & Wake 1998. – Mexico.

Tribus *Spelerpini* Cope, 1859

Blepsimolge Hillis, Chamberlain, Wilcox & Chippindale, 2001. **Type-species**, by original designation: *Eurycea nana* Bishop, 1941 USA (Texas) **Comment**: Created as a subgenus of *Eurycea* Gray, 1850.
Eurycea chisholmensis Chippindale, Price, Wiens & Hillis, 2000. – USA (Texas).
Eurycea naufragia Chippindale, Price, Wiens & Hillis, 2000 – USA (Texas).
Eurycea tonkawae Chippindale, Price, Wiens & Hillis, 2000 – USA (Texas).

Eurycea waterlooensis Hillis, Chamberlain, Wilcox & Chippindale, 2001. – USA (Texas).

Notiomolge Hillis, Chamberlain, Wilcox & Chippindale, 2001. – **Type-species**, by original designation: *Eurycea neotenes* Bishop & Wright, 1937. - USA (Texas) - **Comment** Created as a "division" of *Eurycea* Gray, 1850

Paedomolge Hillis, Chamberlain, Wilcox & Chippindale, 2001. **Type-species**, by original designation: *Eurycea tonkawae* Chippindale, Price, Wiens & Hillis, 2000 USA (Texas). - **Comment** Created as a "section" of *Eurycea* Gray, 1850.

Septentriomolge Hillis, Chamberlain, Wilcox & Chippindale, 2001. **Type-species**, by original designation. *Eurycea chisholmensis* Chippindale, Price, Wiens & Hillis, 2000. USA (Texas). **Comment**: Created as a subgenus of *Eurycea* Gray, 1850.

Subfamilia *PLETHODONTINAE* Gray, 1850

Tribus *DESMOGNATHINI* Gray, 1850

Aneides vagrans Wake & Jackman in JACKMAN, 1998. – USA (California).

Desmognathus folkertsi Camp, Tilley, Austin & Marshall, 2002 USA (Georgia).

Speleomantes imperialis sarrabusensis Lanza, Leo, Forti, Cimmaruta, Caputo & Nascetti, 2001. Italy.

Tribus *PLETHODONTINI* Gray, 1850

Plethodon ainsworthi Lazell, 1998. – USA (Mississippi).

Plethodon amplus Highton & Peabody, 2000. – USA (North Carolina).

Plethodon cheoah Highton & Peabody, 2000. USA (North Carolina).

Plethodon electromorphus Highton, 1999. – USA (West Virginia).

Plethodon meridianus Highton & Peabody, 2000. – USA (North Carolina)

Plethodon montanus Highton & Peabody, 2000. – USA (Virginia).

Plethodon virginia Highton, 1999. – USA (Virginia).

Superfamilia *PROTEOIDEA* Gray, 1825

Familia *PROTEIDAE* Gray, 1825

† *Mioproteus wezei* Młynarski, Szyndlar, Estes & Sanchiz, 1984. – Poland. Pliocene.

Superfamilia *SALAMANDROIDEA* Goldfuss, 1820

Familia *SALAMANDRIDAE* Goldfuss, 1820

† *Chelotriton pliocenicus* Bailon, 1989. – France. Pliocene.

"*Chioglossa lusitanica brevidigitata*" Ferrand de Almeida, Ferrand de Almeida, Gonçalves, Sequeira, Teixeira & Ferrand de Almeida, 2001. Portugal **Comment**: Nomenclaturally unavailable nomen, as having been published without type-specimen designation and without explicit statement of the intention to establish a new taxon (CROCHET & DUBOIS, 2004: 496)

Paramesotriton laoensis Stuart & Papenfuss, 2002. – Laos

Triturus karelinii arntzeni Litvinchuk, Borkin, Džukić & Kalezic in LITVINCHUK, BORKIN, DŽUKIĆ, KALEŽIĆ, KHALTURIN & ROSANOV, 1999. – Serbia.

Tylototriton asperrimus wenxianensis Fei, Ye & Yang, 1984. – China (Gansu).
Tylototriton hainanensis Fei, Ye & Yang, 1984. – China (Hainan). **Comment**: Authorship of nomen wrongly credited to "Fei & Yang" by FROST (1985: 617) and DUELLMAN (1993: 310).

Epifamilia *SIRENOIDIA* Gray, 1825

Superfamilia *SIRENOIDEA* Gray, 1825

Familia *SIRENIDAE* Gray, 1825

† ***Kababisha*** Evans, Milner & Werner, 1996. **Type-species**, by original designation: † *Kababisha humarensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.
† *Kababisha humarensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.
† *Kababisha sudanensis* Evans, Milner & Werner, 1996. – Sudan. Cretaceous.
† ***Noterpeton*** Rage, Marshall & Gayet, 1993. **Type-species**, by original designation: † *Noterpeton bolivianum* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous.
† *Noterpeton bolivianum* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous.

Superordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814

Ordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814

Incertae sedis

† ***Rubricacaecilia*** Evans & Sigogneau-Russell, 2001. **Type-species**, by original designation: † *Rubricacaecilia monbaroni* Evans & Sigogneau-Russell, 2001. – Morocco. Cretaceous.
† *Rubricacaecilia monbaroni* Evans & Sigogneau-Russell, 2001. – Morocco. Cretaceous.

Epifamilia *CAECILIOIDIA* Rafinesque-Schmaltz, 1814

Superfamilia *CAECILIOIDEA* Rafinesque-Schmaltz, 1814

Familia *CAECILIIDAE* Rafinesque-Schmaltz, 1814

Boulengerula fischeri Nussbaum & Hinkel *in* FISCHER & HINKEL, 1994 [nec *Boulengerula fischeri* Nussbaum & Hinkel, 1994]. – Rwanda. – **Comment**. See LÖTTERS (2003).
Gegeneophis krishni Pillai & Ravichandran, 1999. – India (Karnataka).

Familia *ICHTHYOPHIIDAE* Taylor, 1968

Ichthyophis garoensis Pillai & Ravichandran, 1999. – India (Meghalaya).
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Familia *SCOLECOMORPHIDAE* Taylor, 1969

Crotaphatrema tchabalmbaboensis Lawson, 2000. – Cameroon

Familia *TYPHLONECTIDAE* Taylor, 1968

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Epifamilia † *EOCAECILIAOIDIA* Jenkins & Walsh, 1993

Superfamilia † *EOCAECILIAOIDEA* Jenkins & Walsh, 1993

Familia † *EOCAECILIAIDAE* Jenkins & Walsh, 1993

† ***Eocaecilia*** Jenkins & Walsh, 1993. **Type-species**, by original designation: † *Eocaecilia micropodia* Jenkins & Walsh, 1993. – USA (Arizona). Jurassic

† *Eocaecilia micropodia* Jenkins & Walsh, 1993. – USA (Arizona). Jurassic

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Amphibia Mundi. 1.3. Recent amphibians: suprageneric taxonomic additions (1967-2002)

Alain Dubois

Vertébrés, Reptiles et Amphibiens,
USM 0602 Taxonomie and Collections,
Département de Systématique and Evolution,
Muséum national d'Histoire naturelle,
25 rue Cuvier, 75005 Paris, France
<adubois@mnhn.fr>

The current *International Code of Zoological Nomenclature* (Anonymous, 1999) only regulates some of the nomina of zoological taxa, belonging to three "groups of names" or better "nominal-series" (Dubois, 2000): the species-series, the genus-series and the family-series. It is currently not concerned with the nomenclature of lower-ranked taxa, i.e. of the "variety-series" (Dubois, 2005*c-d*), or of higher-ranked taxa, i.e. of the "class-series" (Dubois, 2000, 2005*c-d*). As a result, the nomenclature of such taxa, supposedly regulated by "usage" and "consensus" among specialists, is in fact arbitrary and chaotic, which causes problem for communication among taxonomists and especially between the latter and all non-specialist users of zoological nomina. For this reason, Dubois (2005*c-d*) recently proposed a set of rules for the nomenclature of class-series taxa. For the time being, only brief summaries of these proposed rules have been published (Dubois, 2004, 2005*a*), and their discussion by the international community of zoologists, before their possible incorporation in the *Code*, may take time. Regarding the **Neobatrachi** (i.e., recent amphibians, taxa represented by at least one species in the currently living fauna of our planet: see Dubois, 2004), in the series *Amphibia Mundi*, for reasons explained in Dubois (2005*b*), such nomina are currently not used, but this may change in the future, when more robust hypotheses on the relationships among amphibian fossil and recent groups are available and widely accepted. It will then be useful to have a list of available class-series nomina, some of which may have then to be considered as valid. As changes are also likely to occur at family level and below, a similar list for family-series nomina will also be useful.

The present list presents additions in the taxonomy of **Neobatrachi** for taxa above rank genus, published until 2003 after the two lists of such taxa of Kuhn (1967) and Dubois (1984), or ignored in these two lists. The period covered by these additions starts in 1984 for family-series taxa of living anurans, and in 1967 for all other taxa and nomina. It ends on 31 December 2002 for all these groups.

New nomina of the family-series (i.e., families, subfamilies, tribes and subtribes; Dubois, 2000, 2005*c-d*) are printed in *Small Capital Italics*, followed by the nomina of their *type-genera*, and by the *country* of the *type-locality* of the type-species of the latter (not the currently known or inferred geographical distribution of the taxon, that may be much larger).

New nomina of the class-series (i.e., orders, classes, etc.; Dubois, 2000, 2005*a*, *c-d*) are printed in **Bold Small Capitals**. As class-series nomina below the rank order are not recognized in the

ergotaxonomy used here (DUBOIS, 2005*b*), any new nomen of this nominal-series is simply listed below the nomen of the least inclusive class-series taxon including all its originally included genera or *conucleogenera* (see DUBOIS, 2005*d*), followed between square brackets by the rank afforded to this nomen in the publication where it was created.

Only new nomina are listed, and taxonomic or nomenclatural changes other than additions (e.g., synonymisation or revalidation of nomen, change of rank or or higher taxonomic allocation of taxon, first-reviser action, orthographic emendation) are not considered here. The new nomina are listed below by alphabetical order under taxa according to the conservative general taxonomic frame of DUBOIS (2005*b*). The nomina of all-fossil taxa are preceded by the sign †. Nomenclaturally unavailable nomina (i.e., nomina nuda and other kinds of anoplonyms, as defined by DUBOIS, 2000) are presented below "between quotation marks".

Classis **AMPHIBIA** De Blainville, 1816

Subclassis **NEOBATRACHI** Sarasin & Sarasin, 1890

Superordo † **ALLOCAUDATA** Fox & Naylor, 1982

Ordo † **ALLOCAUDATA** Fox & Naylor, 1982

† **ALLOCAUDATA** Fox & Naylor, 1982 [ordo].

Superordo **BATRACHIA** Brongniart, 1800

Ordo **ANURA** Duméril, 1806

ARCHAEOSALIENTIA Roček, 1981 [ordo]
BOMBINANURA Ford & Cannatella, 1993 ["taxon"].
DISCOGLOSSANURA Ford & Cannatella, 1993 ["taxon"].
LEIOPELMATANURA Ford & Cannatella, 1993 ["taxon"]
NEOCAUDATA Cannatella & Hillis, 1993 [no rank given].
NEOSALIENTIA Roček, 1981 [ordo].
PARATOIDIA Gardiner, 1982 [superordo] – **Comment** Nomen misspelled **PARATOIDEA** by MILNER (1988)
PIPANURA Ford & Cannatella, 1993 ["taxon"].
PIPIMORPHA Ford & Cannatella, 1993 ["taxon"].
PROCERA Feller & Hedges, 1998 [superordo].

Incertae sedis

† *PROSALIRIDAE* Shubin & Jenkins, 1995 **Type-genus**, by original designation: † *Prosalirus* Kuhn, 1964 – USA (Arizona). Jurassic.
† *TRIGONOBATRACHIDAE* Holman, 1974 **Type-genus**, by original designation. † *Trigobatrachus* Holman, 1964. USA (Kansas). Miocene

Epifamilia *Bombinatoroidia* Gray, 1825

Superfamilia *Bombinatoroidea* Gray, 1825

Familia *Bombinatoridae* Gray, 1825

Subfamilia † *Gobiatinae* Roček & Nessov, 1993

† *Gobiatidae* Roček & Nessov, 1993. – Mongolia. Cretaceous.

Epifamilia *Pelobatoidia* Bonaparte, 1850

Superfamilia *Pelobatoidea* Bonaparte, 1850

Familia *Pelobatidae* Bonaparte, 1850

Subfamilia *Megophryinae* Noble, 1931 (1850)

Tribus *Leptobrachiini* Dubois, 1983

" *Leptobrachiini*" Dubois, 1980. **Type-genus**, by implicit etymological designation *Leptobrachium* Tschudi, 1838. – Indonesia (Java) – **Comment**: Nomenclaturally unavailable nomen, as published conditionally (Art. 15.1).

Leptobrachiinae Dubois, 1983. **Type-genus**, by implicit etymological designation *Leptobrachium* Tschudi, 1838. – Indonesia (Java).

Oreolalaxinae Tian & Hu, 1985. **Type-genus**, by original designation: *Oreolalax* Myers & Leviton, 1962. - China (Sichuan) – **Comment** The original spelling of this nomen is incorrect and should be emended into *Oreolalaginae*, a justified emendation which was first used by Dubois (1987*b*)

Subfamilia *Pelobatinae* Bonaparte, 1850

† *Eopelobatinae* Špinar, 1972 **Type-genus**, by original designation: † *Eopelobates* Parker, 1929. Germany. Oligo-Miocene boundary.

Epifamilia *Pipoidia* Gray, 1825

Superfamilia *Pipoidea* Gray, 1825

Familia *Pipidae* Gray, 1825

Subfamilia *Dactylethrinae* Hogg, 1838

Siluraninae Cannatella & Trueb, 1988 **Type-genus**, by implicit etymological designation *Silurana* Gray, 1864. – Nigeria.

Epifamilia *RANOIDIA* Rafinesque-Schmaltz, 1814

Superfamilia *HYLOIDEA* Rafinesque, 1815

Familia *BUFONIDAE* Gray, 1825

STEPHOPAEDINI Dubois, 1987*a*. **Type-genus**, by original designation: *Stephopaedes* Channing, 1978. – Zimbabwe.

Superfamilia *RANOIDEA* Rafinesque-Schmaltz, 1814

Familia *MICROHYLIDAE* Günther, 1858 (1843)

Subfamilia *ASTEROPHRYINAE* Günther, 1858

Tribus *BARYGENYINI* Burton, 1986

BARYGENYINI Burton, 1986. **Type-genus**, by original designation: *Barygenys* Parker, 1936. Papua New Guinea.

Tribus *CALLULOPINI* Dubois, 1988

CALLULOPINI Dubois, 1988 **Type-genus**, by original designation. *Callulops* Boulenger, 1888. Papua New Guinea.

Subfamilia *MICROHYLINAE* Günther, 1858 (1843)

OTOPHRYNINAE Wassersug & Pyburn, 1987 - **Type-genus**, by original designation: *Otophryne* Boulenger, 1900. – Guyana.

Subfamilia *PHRYNOMERINAE* Noble, 1931

PHRYNOMANTINI Burton, 1986 **Type-genus**, by original designation *Phrynomantis* Peters, 1867 South Africa

Familia *BREVICIPITIDAE* Bonaparte, 1850

Subfamilia *BREVICIPITINAE* Bonaparte, 1850

TOMOPTERNINI Dubois, 1987*a* **Type-genus**, by original designation: *Tomopterna* Duméril & Bibron, 1841. – South Africa

Familia *Ranidae* Rafinesque-Schmaltz, 1814

Subfamilia *Conrauinae* Dubois, 1992

Conrauini Dubois, 1992. **Type-genus**, by original designation: *Conraua* Nieden, 1908. - Cameroon.

Subfamilia *Dicroglossinae* Anderson, 1871

Tribus *Limnonectini* Dubois, 1992

Limnonectini Dubois, 1992. **Type-genus**, by original designation: *Limnonectes* Fitzinger, 1843. Indonesia (Java).

Tribus *Occidozygini* Fei, Ye & Huang, 1991

Occidozyginae Fei, Ye & Huang, 1991. **Type-genus**, by original designation. *Occidozyga* Kuhl & Van Hasselt, 1822. – Indonesia (Java).

Tribus *Paini* Dubois, 1992

Paini Dubois, 1992. **Type-genus**, by original designation *Paa* Dubois, 1975. Nepal.

Subfamilia *Lankanectinae* Dubois & Ohler, 2001

Lankanectinae Dubois & Ohler, 2001 **Type-genus**, by original designation *Lankanectes* Dubois & Ohler, 2001. – Sri Lanka

Subfamilia *Mantellinae* Laurent, 1946

Tribus *Boophini* Vences & Glaw, 2001

Boophinae Vences & Glaw, 2001 **Type-genus**, by original designation. *Boophis* Tschudi, 1838 – Madagascar.

Tribus *Laliostomini* Vences & Glaw, 2001

Laliostominae Vences & Glaw, 2001. - **Type-genus**, by original designation *Laliostoma* Glaw, Vences & Bohme, 1998 Madagascar **Comment** This family-series nomen was ill formed as the stem of the nomen *Laliostoma* is *Laliostomat-*. However, according to Art 29 4 of the current version of the *Code* (Anonymous, 1999), in such cases the original spelling "must be maintained as the correct

original spelling", artificially considering that "its stem is formed from the name of the type genus as though it were an arbitrary combination of letters".

Subfamilia *MICRIXALINAE* Dubois, Ohler & Biju, 2001

MICRIXALINAE Dubois, Ohler & Biju, 2001. **Type-genus**, by original designation: *Micrixalus* Boulenger, 1888. – "Southern India".

Subfamilia *NYCTIBATRACHINAE* Blommers-Schlosser, 1993

NYCTIBATRACHINAE Blommers-Schlosser, 1993 **Type-genus**, by original designation: *Nyctibatrachus* Boulenger, 1882. – India (Kerala).

Subfamilia *PTYCHADENINAE* Dubois, 1987

PTYCHADENINI Dubois, 1987*a* – **Type-genus**, by original designation *Ptychadena* Boulenger, 1917. La Réunion, Mascarene Islands.

Subfamilia *RANINAE* Rafinesque-Schmaltz, 1814

Tribus *RANINI* Rafinesque-Schmaltz, 1814

"*AMOLOPINAE*" Yang, 1989. **Type-genus**, by original designation· *Amolops* Cope, 1865 – "Afghanistan". – **Comment**: nomen nudum.

AMOLOPSINAE Yang, 1991 – **Type-genus**, by original designation: *Amolops* Cope, 1865 "Afghanistan". **Comment** The original spelling of this nomen is incorrect and should be emended into *AMOLOPINAE*, a justified emendation which was first used by FEI, YE & HUANG (1991).

Subfamilia *RANIXALINAE* Dubois, 1987

RANIXALINI Dubois, 1987*a* – **Type-genus**, by original designation: *Ranixalus* Dubois, 1986 – India (Karnataka).

INDIRANINAE Blommers-Schlosser, 1993 **Type-genus**, by original designation: *Indirana* Laurent, 1986 – India (Kerala).

Subfamilia *RHACOPHORINAE* Hoffman, 1932 (1858)

Tribus *BUERGERIINI* Channing, 1989

BUERGERIINAE Channing, 1989 **Type-genus**, by original designation· *Buergeria* Tschudi, 1838 Japan.

Ordo **Urodela** Duméril, 1806

Incertae sedis

Familia † *Prosirenidae* Estes, 1969

† *Prosirenidae* Estes, 1969 - **Type-genus** by original designation. † *Prosiren* Goin & Auffenberg, 1958. – USA (Texas). Cretaceous.

Familia † *Scapherpetontidae* Auffenberg & Goin, 1959

† *Eoscapherpetoninae* Nessov, 1981 - **Type-genus** by original designation: † *Eoscapherpeton* Nessov, 1981. – Uzbekistan Cretaceous.

Epifamilia *Cryptobranchoidia* Fitzinger, 1826

Superfamilia *Cryptobranchoidea* Fitzinger, 1826

Familia *Cryptobranchidae* Fitzinger, 1826

† *Aviturinae* Gubin, 1991 **Type-genus**, by original designation: † *Aviturus* Gubin, 1991 Mongolia. Palaeocene.

Familia *Hynobiidae* Cope, 1859 (1856)

Subfamilia *Protohynobiinae* Fei & Ye, 2000

Protohynobiinae Fei & Ye, 2000. **Type-genus**, by original designation: *Protohynobius* Fei & Ye, 2000. – China (Sichuan).

Epifamilia † *Karauroidia* Ivachnenko, 1978

Superfamilia † *Karauroidea* Ivachnenko, 1978

Familia † *Karauridae* Ivachnenko, 1978

† *Karauridae* Ivachnenko, 1978 **Type-genus**, by original designation. † *Karaurus* Ivachnenko, 1978 – Kazakhstan Jurassic

Epifamilia *Sirenoidia* Gray, 1825

Superfamilia *Sirenoidea* Gray, 1825

Familia *Sirenidae* Gray, 1825

† *Noterpetontidae* Rage, Marshall & Gayet, 1993 **Type-genus**, by original designation: † *Noterpeton* Rage, Marshall & Gayet, 1993. – Bolivia. Cretaceous.

Superordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814

Ordo **GYMNOPHIONA** Rafinesque-Schmaltz, 1814

EPICRIIDEI Lescure, Renous & Gasc, 1986 [infraordo].
RHINATREMATOIDEI Lescure, Renous & Gasc, 1986 [subordo].
SIPHONOPIDEI Lescure, Renous & Gasc, 1986 [subordo]

Familia *CAECILIIDAE* Rafinesque-Schmaltz, 1814

AFROCAECILIINI Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Afrocaecilia* Taylor, 1968. – Kenya.

BRASILIOTYPHLINI Lescure, Renous & Gasc, 1986 - **Type-genus**, by original designation. *Brasilotyphlus* Taylor, 1968. - Brazil (Amazonas).

DERMOPHIINAE Taylor, 1969 – **Type-genus**, by original designation. *Dermophis* Peters, 1879 – Mexico.

GEOTRYPETIDAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation. *Geotrypetes* Peters, 1880. – Gabon

GRANDISONIINAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Grandisonia* Taylor, 1968. - Seychelles.

GYMNOPIINAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Gymnopis* Peters, 1874 – Panama

HERPELINAE Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation: *Herpele* Peters, 1879. – Gabon.

INDOTYPHLINI Lescure, Renous & Gasc, 1986 – **Type-genus**, by original designation *Indotyphlus* Taylor, 1960. – India (Maharashtra).

OSCAECILIIDAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Oscaecilia* Taylor, 1968. – Panama

PSEUDOSIPHONOPITI Lescure, Renous & Gasc, 1986. **Type-genus**, by original designation *Pseudosiphonops* Taylor, 1968. – Brazil

Familia *ICHTHYOPHIIDAE* Taylor, 1968 (1843)

ICHTHYOPHIIDAE Taylor, 1968. **Type-genus**, by original designation *Ichthyophis* Taylor, 1968. Sri Lanka

Familia *SCOLECOMORPHIDAE* Taylor, 1969

SCOLECOMORPHIDAE Taylor, 1969. **Type-genus**, by original designation *Scolecomorphus* Boulenger, 1883 – Tanzania

Familia *TYPHLONECTIDAE* Taylor, 1968

POTAMOTYPHLIDAE Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation *Potomotyphlus* Taylor, 1968 Venezuela **Comment** The original nomen of this family is incorrect and should be emended into *POTOMOTYPHLIDAE*, according to Art. 35.4.1 of the *Code*.

PSEUDOTYPHLONECTINI Lescure, Renous & Gasc, 1986 **Type-genus**, by original designation: *Pseudotyphlonectes* Lescure, Renous & Gasc, 1986. – Colombia.

TYPHLONECTIDAE Taylor, 1968. **Type-genus**, by original designation: *Typhlonectes* Peters, 1879. French Guyana.

Familia *URAEOTYPHLIDAE* Nussbaum, 1979

URAEOTYPHLINAE Nussbaum, 1979 **Type-genus**, by original designation: *Uraeotyphlus* Peters, 1979. India (Kerala).

Superfamilia *RHINATREMATOIDEA* Nussbaum, 1977

Familia *RHINATREMATIDAE* Nussbaum, 1977

RHINATREMATIDAE Nussbaum, 1977. **Type-genus**, by original designation: *Rhinatrema* Taylor, 1968. Venezuela.

Epifamilia † *EOCAECILIOIDIA* Jenkins & Walsh, 1993

Superfamilia † *EOCAECILIOIDEA* Jenkins & Walsh, 1993

Familia † *EOCAECILIIDAE* Jenkins & Walsh, 1993

† *EOCAECILIAIDAE* Jenkins & Walsh, 1993. **Type-genus**, by original designation: † *Eocaecilia* Jenkins & Walsh, 1993 USA (Arizona). Jurassic. **Comment** The original nomen of this family is incorrect and should be emended into *EOCAECILIIDAE*, a justified emendation first used by DUBOIS (2005*b*). The original spelling was clearly derived from that of the familial nomen *CAECILIAIDAE*. The latter spelling was once adopted by ICZN (ANONYMOUS, 1987) to avoid homonymy with a familial nomen of Insects, but this decision was later modified by ICZN (ANONYMOUS, 1996) to return to the well-known spelling *CAECILIIDAE* In 1993, the *Code* in force was the so-called third edition (ANONYMOUS, 1985) according to which an incorrect original familial nomen must be corrected. This rule was changed in the so-called fourth edition (ANONYMOUS, 1999; see above under *LALIOSTROMINAE*) but it applies to any familial nomen published before 31 December 1999

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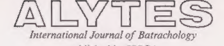
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Amphibia Mundi
1

Contents

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